Filter Summary Report: TIA,simple,Z2,Z4,Z5

Generated by MacAnalog-Symbolix $\,$

December 10, 2024

Contents

1 Examined H(z) for TIA simple Z2 Z4 Z5: $\frac{Z_4(Z_2Z_5g_m-Z_2+Z_5)}{2Z_2Z_4g_m+2Z_2Z_5g_m+2Z_2+4Z_4+2Z_5}$

$$H(z) = \frac{Z_4 (Z_2 Z_5 g_m - Z_2 + Z_5)}{2Z_2 Z_4 g_m + 2Z_2 Z_5 g_m + 2Z_2 + 4Z_4 + 2Z_5}$$

- 2 HP
- 3 BP
- **3.1** BP-1 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1}, R_5, \infty\right)$

$$H(s) = \frac{L_4 s \left(R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_4 L_4 R_2 R_5 g_m s^2 + C_4 L_4 R_2 s^2 + C_4 L_4 R_5 s^2 + L_4 R_2 g_m s + 2 L_4 s + R_2 R_5 g_m + R_2 + R_5\right)}$$

Parameters:

Q:
$$\frac{C_4\sqrt{\frac{1}{C_4L_4}}(R_2R_5g_m+R_2+R_5)}{R_2g_m+2}$$
 wo:
$$\sqrt{\frac{1}{C_4L_4}}$$
 bandwidth:
$$\frac{R_2g_m+2}{C_4(R_2R_5g_m+R_2+R_5)}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}$$
 Qz: 0 Wz: None

3.2 BP-2 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$

$$H(s) = \frac{L_4 R_4 s \left(R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_4 L_4 R_2 R_4 s^2 + C_4 L_4 R_2 R_4 s^2 + C_4 L_4 R_4 R_5 s^2 + L_4 R_2 R_4 g_m s + L_4 R_2 R_5 g_m s + L_4 R_2 s + 2 L_4 R_4 s + L_4 R_5 s + R_2 R_4 R_5 g_m + R_2 R_4 + R_4 R_5\right)}$$

Q:
$$\frac{C_4R_4\sqrt{\frac{1}{C_4L_4}}(R_2R_5g_m+R_2+R_5)}{R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5}$$
 wo:
$$\sqrt{\frac{1}{C_4L_4}}$$
 bandwidth:
$$\frac{R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5}{C_4R_4(R_2R_5g_m+R_2+R_5)}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{R_4(R_2R_5g_m-R_2+R_5)}{2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}$$
 Qz: 0 Wz: None

- 4 LP
- 5 BS

5.1 BS-1
$$Z(s) = \left(\infty, R_2, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_4 L_4 R_2 g_m s^2 + 2 C_4 L_4 s^2 + C_4 R_2 R_5 g_m s + C_4 R_2 s + C_4 R_5 s + R_2 g_m + 2\right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_4\sqrt{\frac{1}{C_4L_4}}(R_2g_m+2)}{R_2R_5g_m+R_2+R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{R_2R_5g_m+R_2+R_5}{L_4(R_2g_m+2)} \\ \text{K-LP:} \ \frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)} \\ \text{K-HP:} \ \frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

5.2 BS-2
$$Z(s) = \left(\infty, R_2, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_4 L_4 R_2 R_5 g_m s^2 + C_4 L_4 R_2 s^2 + 2 C_4 L_4 R_4 s^2 + C_4 L_4 R_5 s^2 + C_4 R_2 R_4 R_5 g_m s + C_4 R_2 R_4 s + C_4 R_4 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{L_4\sqrt{\frac{1}{C_4L_4}}(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)}{R_4(R_2R_5g_m + R_2 + R_5)} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{R_4(R_2R_5g_m + R_2 + R_5)}{L_4(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-LP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-HP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

6 GE

6.1 GE-1
$$Z(s) = \left(\infty, R_2, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1 \right)}$$

$$\begin{aligned} &\text{Q: } \frac{L_5\sqrt{\frac{1}{C_5L_5}}(R_2g_m+1)}{R_2R_4g_m+R_2+2R_4} \\ &\text{wo: } \sqrt{\frac{1}{C_5L_5}} \\ &\text{bandwidth: } \frac{R_2R_4g_m+R_2+2R_4}{L_5(R_2g_m+1)} \\ &\text{K-LP: } \frac{R_4}{2} \\ &\text{K-HP: } \frac{R_4}{2} \\ &\text{K-BP: } -\frac{R_2R_4}{2R_4g_m+2R_2+4R_4} \\ &\text{Qz: } \frac{L_5\sqrt{\frac{1}{C_5L_5}}(-R_2g_m-1)}{R_2} \\ &\text{Wz: } \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.2 GE-2
$$Z(s) = \left(\infty, R_2, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2 \right)}{2 \left(C_5 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_4 g_m + R_2 + 2 R_4 \right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_5\sqrt{\frac{1}{C_5L_5}}(R_2R_4g_m + R_2 + 2R_4)}{R_2g_m + 1} \\ & \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ & \text{bandwidth:} \ \frac{R_2g_m + 1}{C_5(R_2R_4g_m + R_2 + 2R_4)} \\ & \text{K-LP:} \ -\frac{R_2R_4}{2R_2R_4g_m + 2R_2 + 4R_4} \\ & \text{K-HP:} \ -\frac{R_2R_4}{2R_2R_4g_m + 2R_2 + 4R_4} \\ & \text{K-BP:} \ \frac{R_4}{2} \\ & \text{Qz:} \ -\frac{C_5R_2\sqrt{\frac{1}{C_5L_5}}}{R_2g_m + 1} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.3 GE-3
$$Z(s) = \left(\infty, R_2, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1 \right)}{2 \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_4 g_m s + C_5 R_2 R_5 g_m s + C_5 R_2 s + 2 C_5 R_4 s + C_5 R_5 s + R_2 g_m + 1 \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{L_5\sqrt{\frac{1}{C_5L_5}}(R_2g_m+1)}{R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ \text{bandwidth:} \ \frac{R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5}{L_5(R_2g_m+1)} \\ \text{K-LP:} \ \frac{R_4}{2} \\ \text{K-HP:} \ \frac{R_4}{2} \\ \text{K-BP:} \ \frac{R_4(R_2R_5g_m-R_2+R_5)}{2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)} \\ \text{Qz:} \ \frac{L_5\sqrt{\frac{1}{C_5L_5}}(R_2g_m+1)}{R_2R_5g_m-R_2+R_5} \\ \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{array}$$

6.4 GE-4
$$Z(s) = \left(\infty, R_2, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_5 L_5 R_2 R_5 s^2 + L_5 R_2 R_5 g_m s - L_5 R_2 s + L_5 R_5 s - R_2 R_5 \right)}{2 \left(C_5 L_5 R_2 R_4 R_5 g_m s^2 + C_5 L_5 R_2 R_5 s^2 + 2 C_5 L_5 R_4 R_5 s^2 + L_5 R_2 R_4 g_m s + L_5 R_2 R_5 g_m s + L_5 R_2 s + 2 L_5 R_4 s + L_5 R_5 s + R_2 R_4 R_5 g_m + R_2 R_5 + 2 R_4 R_5 \right)}$$

$$\begin{aligned} & \text{Q: } \frac{C_5R_5\sqrt{\frac{1}{C_5L_5}}(R_2R_4g_m + R_2 + 2R_4)}{R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5} \\ & \text{wo: } \sqrt{\frac{1}{C_5L_5}} \\ & \text{bandwidth: } \frac{R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5}{C_5R_5(R_2R_4g_m + R_2 + 2R_4)} \\ & \text{K-LP: } -\frac{R_2R_4}{2R_2R_4g_m + 2R_2 + 4R_4} \\ & \text{K-HP: } -\frac{R_2R_4}{2R_2R_4g_m + 2R_2 + 4R_4} \\ & \text{K-BP: } \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ & \text{Qz: } -\frac{C_5R_2R_5\sqrt{\frac{1}{C_5L_5}}}{R_2R_5g_m - R_2 + R_5} \\ & \text{Wz: } \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.5 GE-5
$$Z(s) = \left(\infty, R_2, \infty, R_4, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_5 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_5\sqrt{\frac{1}{C_5L_5}}(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)}{R_2g_m + 1} \\ & \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ & \text{bandwidth:} \ \frac{R_2g_m + 1}{C_5(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ & \text{K-LP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ & \text{K-HP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ & \text{K-BP:} \ \frac{R_4}{2} \\ & \text{Qz:} \ \frac{C_5\sqrt{\frac{1}{C_5L_5}}(R_2R_5g_m - R_2 + R_5)}{R_2g_m + 1} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.6 GE-6
$$Z(s) = \left(\infty, R_2, \infty, R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 - C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_5 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_5 s^2 + C_5 R_2 R_4 R_5 g_m s + C_5 R_2 R_5 s + 2 C_5 R_4 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

Parameters:

$$Q \colon \frac{L_5\sqrt{\frac{1}{C_5L_5}}}{R_5(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ R_5(R_2R_4g_m + R_2 + 2R_4) \\ \text{wo: } \sqrt{\frac{1}{C_5L_5}} \\ \text{bandwidth: } \frac{R_5(R_2R_4g_m + R_2 + 2R_4)}{L_5(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-LP: } \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-HP: } \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-BP: } -\frac{R_2R_4}{2R_2R_4g_m + 2R_2 + 4R_4} \\ \text{Qz: } \frac{L_5\sqrt{\frac{1}{C_5L_5}}(-R_2R_5g_m + R_2 - R_5)}{R_2R_5} \\ \text{Wz: } \sqrt{\frac{1}{C_5L_5}}$$

6.7 GE-7
$$Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + C_4 R_4 s + 1\right) \left(R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_4 L_4 R_2 g_m s^2 + 2 C_4 L_4 s^2 + C_4 R_2 R_4 g_m s + C_4 R_2 R_5 g_m s + C_4 R_2 s + 2 C_4 R_4 s + C_4 R_5 s + R_2 g_m + 2\right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_4\sqrt{\frac{1}{C_4L_4}}(R_2g_m+2)}{R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5}{L_4(R_2g_m+2)} \\ \text{K-LP:} \ \frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)} \\ \text{K-HP:} \ \frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)} \\ \text{K-BP:} \ \frac{R_4(R_2R_5g_m-R_2+R_5)}{2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)} \\ \text{Qz:} \ \frac{L_4\sqrt{\frac{1}{C_4L_4}}}{R_4} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

6.8 GE-8
$$Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, R_5, \infty\right)$$

$$H(s) = \frac{\left(R_{2}R_{5}g_{m} - R_{2} + R_{5}\right)\left(C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}\right)}{2\left(C_{4}L_{4}R_{2}R_{5}g_{m}s^{2} + C_{4}L_{4}R_{2}s^{2} + 2C_{4}L_{4}R_{4}s^{2} + C_{4}L_{4}R_{5}s^{2} + L_{4}R_{2}g_{m}s + 2L_{4}s + R_{2}R_{4}g_{m} + R_{2}R_{5}g_{m} + R_{2} + 2R_{4} + R_{5}\right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{C_4\sqrt{\frac{1}{C_4L_4}}(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)}{R_2g_m + 2} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{R_2g_m + 2}{C_4(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-LP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-HP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{K-BP:} \ \frac{R_2R_5g_m - R_2 + R_5}{2(R_2g_m + 2)} \\ \text{Qz:} \ C_4R_4\sqrt{\frac{1}{C_4L_4}} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

6.9 GE-9
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 L_2 R_4 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 + 2 C_2 R_4 s + C_2 R_5 s + R_4 g_m + R_5 g_m + 1 \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_4g_m + R_5g_m + 1)}{2R_4 + R_5} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2L_2}} \\ & \text{bandwidth:} \ \frac{2R_4 + R_5}{L_2(R_4g_m + R_5g_m + 1)} \\ & \text{K-LP:} \ \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ & \text{K-HP:} \ \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ & \text{K-BP:} \ \frac{R_4R_5}{2(2R_4 + R_5)} \\ & \text{Qz:} \ \frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_5g_m - 1)}{R_5} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_2L_2}} \end{aligned}$$

6.10 GE-10
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 L_2 R_4 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 s + 2 C_2 R_4 s + C_2 R_5 s + R_4 g_m + R_5 g_m + 1 \right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_4g_m + R_5g_m + 1)}{R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_2L_2}} \\ \text{bandwidth:} \ \frac{R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5}{L_2(R_4g_m + R_5g_m + 1)} \\ \text{K-LP:} \ \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ \text{K-HP:} \ \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ \text{K-BP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ \text{Qz:} \ \frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_5g_m - 1)}{R_2R_5g_m - R_2 + R_5} \\ \text{Wz:} \ \sqrt{\frac{1}{C_2L_2}} \end{array}$$

6.11 GE-11
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4, \ R_5, \ \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + L_2 R_5 g_m s - L_2 s + R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_2 L_2 R_2 R_4 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 R_2 s^2 + 2 C_2 L_2 R_4 s^2 + C_2 L_2 R_5 s^2 + L_2 R_4 g_m s + L_2 R_5 g_m s + L_2 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5\right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_2\sqrt{\frac{1}{C_2L_2}}(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)}{R_4g_m + R_5g_m + 1} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2L_2}} \\ & \text{bandwidth:} \ \frac{R_4g_m + R_5g_m + 1}{C_2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ & \text{K-LP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ & \text{K-HP:} \ \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)} \\ & \text{K-BP:} \ \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ & \text{Qz:} \ \frac{C_2\sqrt{\frac{1}{C_2L_2}}(R_2R_5g_m - R_2 + R_5)}{R_5g_m - 1} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_2L_2}} \end{aligned}$$

6.12 GE-12
$$Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_2 L_2 R_2 R_3 g_m s^2 + C_2 L_2 R_2 s^2 + 2 C_2 L_2 R_4 s^2 + C_2 L_2 R_5 s^2 + 2 C_2 R_2 R_4 s + C_2 R_2 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}{R_2(2R_4+R_5)} \\ \text{wo:} \ \sqrt{\frac{1}{C_2L_2}} \\ \text{bandwidth:} \ \frac{R_2(2R_4+R_5)}{L_2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)} \\ \text{K-LP:} \ \frac{R_4(R_2R_5g_m-R_2+R_5)}{2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)} \\ \text{K-HP:} \ \frac{R_4(R_2R_5g_m-R_2+R_5)}{2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)} \\ \text{K-BP:} \ \frac{R_4R_5}{2(2R_4+R_5)} \\ \text{Qz:} \ \frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_2R_5g_m-R_2+R_5)}{R_2R_5} \\ \text{Wz:} \ \sqrt{\frac{1}{C_2L_2}} \end{array}$$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5R_2R_5s + R_2R_5g_m - R_2 + R_5}{2\left(C_4C_5R_2R_5s^2 + C_4R_2R_5g_ms + C_4R_2s + C_4R_5s + C_5R_2R_5g_ms + 2C_5R_5s + R_2g_m + 2\right)}$$

$$\begin{array}{l} \text{Q:} \frac{C_4C_5R_2R_5\sqrt{\frac{R_2g_m+2}{C_4C_5R_2R_5}}}{C_4R_2R_5g_m+C_4R_2+C_4R_5+C_5R_2R_5g_m+2C_5R_5}\\ \text{wo:} \sqrt{\frac{R_2g_m+2}{C_4C_5R_2R_5}}\\ \text{bandwidth:} \frac{C_4R_2R_5g_m+C_4R_2+C_4R_5+C_5R_2R_5g_m+2C_5R_5}{C_4C_5R_2R_5}\\ \text{K-LP:} \frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}\\ \text{K-HP:} 0\\ \text{K-BP:} -\frac{C_5R_2R_5}{2C_4R_2R_5g_m+2C_4R_2+2C_4R_5+2C_5R_2R_5g_m+4C_5R_5}\\ \end{array}$$

```
Qz: 0
Wz: None
```

8.2 INVALID-NUMER-2 $Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left(C_4 C_5 R_2 R_4 s^2 + C_4 R_2 R_4 g_m s + C_4 R_4 s + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1 \right)}$$

Parameters:

 $\begin{array}{c} C_4C_5R_2R_4\sqrt{\frac{R_2g_m+1}{C_4C_5R_2R_4}}\\ \text{Q:} \ \frac{C_4R_2R_4g_m+C_4R_4+C_5R_2R_4g_m+C_5R_2+2C_5R_4}{C_4R_2R_4g_m+C_5R_2R_4g_m+C_5R_2+2C_5R_4}\\ \text{wo:} \ \sqrt{\frac{R_2g_m+1}{C_4C_5R_2R_4}}\\ \text{bandwidth:} \ \frac{C_4R_2R_4g_m+C_4R_4+C_5R_2R_4g_m+C_5R_2+2C_5R_4}{C_4C_5R_2R_4}\\ \text{K-LP:} \ \frac{R_4}{2}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ -\frac{C_5R_2R_4}{2C_4R_2R_4g_m+2C_4R_4+2C_5R_2R_4g_m+2C_5R_2+4C_5R_4}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$

8.3 INVALID-NUMER-3 $Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_4 C_5 R_2 R_4 R_5 s^2 + C_4 R_2 R_4 R_5 g_m s + C_4 R_2 R_4 s + C_4 R_4 R_5 s + C_5 R_2 R_4 R_5 g_m s + C_5 R_2 R_5 s + 2 C_5 R_4 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

Parameters:

8.4 INVALID-NUMER-4 $Z(s) = \left(\infty, \ R_2, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1 \right)}{2 \left(C_4 C_5 R_2 R_4 R_5 g_m s^2 + C_4 C_5 R_2 R_4 s^2 + C_4 C_5 R_4 R_5 s^2 + C_4 R_2 R_4 g_m s + C_4 R_4 s + C_5 R_2 R_4 g_m s + C_5 R_2 R_5 g_m s + C_5 R_2 s + 2 C_5 R_4 s + C_5 R_5 s + R_2 g_m + 1 \right)}$$

Parameters:

8.5 INVALID-NUMER-5 $Z(s) = \left(\infty, \frac{1}{C_{2s}}, \infty, R_4, \frac{1}{C_{5s}}, \infty\right)$

$$H(s) = \frac{R_4 (C_2 s - C_5 s + g_m)}{2 (2C_2 C_5 R_4 s^2 + C_2 s + C_5 R_4 g_m s + C_5 s + g_m)}$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_{2}C_{5}R_{4}\sqrt{\frac{g_{m}}{C_{2}C_{5}R_{4}}}}{C_{2}+C_{5}R_{4}g_{m}+C_{5}} \\ \text{wo:} \ \frac{\sqrt{2}\sqrt{\frac{g_{m}}{C_{2}C_{5}R_{4}}}}{2} \\ \text{bandwidth:} \ \frac{C_{2}+C_{5}R_{4}g_{m}+C_{5}}{2C_{2}C_{5}R_{4}} \\ \text{K-LP:} \ \frac{R_{4}}{2} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_{4}(C_{2}-C_{5})}{2(C_{2}+C_{5}R_{4}g_{m}+C_{5})} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.6 INVALID-NUMER-6 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1 \right)}{2 \left(2 C_2 C_5 R_4 R_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_5 R_4 R_5 g_m s + C_5 R_5 s + R_4 g_m + R_5 g_m + 1 \right)}$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_2C_5R_4R_5\sqrt{\frac{R_4g_m+R_5g_m+1}{C_2C_5R_4R_5}}}{2C_2R_4+C_2R_5+C_5R_4R_5g_m+C_5R_5} \\ \text{wo:} \ \frac{\sqrt{2}\sqrt{\frac{R_4g_m+R_5g_m+1}{C_2C_5R_4R_5}}}{\frac{2}{C_2C_5R_4R_5}} \\ \text{bandwidth:} \ \frac{\frac{2}{C_2R_4+C_2R_5+C_5R_4R_5g_m+C_5R_5}}{2C_2C_5R_4R_5} \\ \text{K-LP:} \ \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_4R_5(C_2-C_5)}{2(2C_2R_4+C_2R_5+C_5R_4R_5g_m+C_5R_5)} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.7 INVALID-NUMER-7 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{C_2 R_5 s + R_5 g_m - 1}{2 \left(C_2 C_4 R_5 s^2 + 2 C_2 s + C_4 R_5 g_m s + C_4 s + g_m \right)}$$

Parameters:

 $\begin{array}{l} \text{Q: } \frac{C_2C_4R_5\sqrt{\frac{g_m}{C_2C_4R_5}}}{2C_2+C_4R_5g_m+C_4}\\ \text{wo: } \sqrt{\frac{g_m}{C_2C_4R_5}}\\ \text{bandwidth: } \frac{2C_2+C_4R_5g_m+C_4}{C_2C_4R_5}\\ \text{K-LP: } \frac{R_5g_m-1}{2g_m}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_2R_5}{2(2C_2+C_4R_5g_m+C_4)}\\ \text{Qz: 0}\\ \text{Wz: None} \end{array}$

8.8 INVALID-NUMER-8 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{C_2R_5s - C_5R_5s + R_5g_m - 1}{2\left(C_2C_4R_5s^2 + 2C_2C_5R_5s^2 + 2C_2s + C_4C_5R_5s^2 + C_4R_5g_ms + C_4s + C_5R_5g_ms + g_m\right)}$$

Parameters:

 $\mathbf{Q} \colon \frac{R_5 \sqrt{\frac{g_m}{R_5 (C_2 C_4 + 2 C_2 C_5 + C_4 C_5)}} (C_2 C_4 + 2 C_2 C_5 + C_4 C_5)}{2 C_2 + C_4 R_5 g_m + C_4 + C_5 R_5 g_m}$

```
wo: \sqrt{\frac{g_m}{R_5(C_2C_4+2C_2C_5+C_4C_5)}} bandwidth: \frac{2C_2+C_4R_5g_m+C_4+C_5R_5g_m}{R_5(C_2C_4+2C_2C_5+C_4C_5)} K-LP: \frac{R_5g_m-1}{2g_m} K-HP: 0 K-BP: \frac{R_5(C_2-C_5)}{2(2C_2+C_4R_5g_m+C_4+C_5R_5g_m)} Qz: 0 Wz: None
```

8.9 INVALID-NUMER-9 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 R_4 R_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_4 R_4 R_5 g_m s + C_4 R_4 s + R_4 g_m + R_5 g_m + 1 \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_2C_4R_4R_5\sqrt{\frac{R_4g_m+R_5g_m+1}{C_2C_4R_4R_5}}}{2C_2R_4+C_2R_5+C_4R_4}\\ \text{wo:} \ \sqrt{\frac{R_4g_m+R_5g_m+1}{C_2C_4R_4R_5}}\\ \text{bandwidth:} \ \frac{2C_2R_4+C_2R_5+C_4R_4R_5g_m+C_4R_4}{C_2C_4R_4R_5}\\ \text{K-LP:} \ \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{C_2R_4R_5}{2(2C_2R_4+C_2R_5+C_4R_4R_5g_m+C_4R_4)}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 s - C_5 s + g_m \right)}{2 \left(C_2 C_4 R_4 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 s + C_4 C_5 R_4 s^2 + C_4 R_4 g_m s + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{R_4\sqrt{\frac{g_m}{R_4(C_2C_4+2C_2C_5+C_4C_5)}}(C_2C_4+2C_2C_5+C_4C_5)}{C_2+C_4R_4g_m+C_5}(C_2C_4+2C_2C_5+C_4C_5)} \\ \text{wo:} \ \sqrt{\frac{g_m}{R_4(C_2C_4+2C_2C_5+C_4C_5)}} \\ \text{bandwidth:} \ \frac{C_2+C_4R_4g_m+C_5R_4g_m+C_5}{R_4(C_2C_4+2C_2C_5+C_4C_5)} \\ \text{K-LP:} \ \frac{R_4}{2} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_4(C_2-C_5)}{2(C_2+C_4R_4g_m+C_5R_4g_m+C_5)} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.11 INVALID-NUMER-11 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 R_4 R_5 s^2 + 2 C_2 C_5 R_4 R_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_4 C_5 R_4 R_5 s^2 + C_4 R_4 R_5 g_m s + C_4 R_4 s + C_5 R_4 R_5 g_m s + C_5 R_5 s + R_4 g_m + R_5 g_m + 1 \right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{R_4R_5\sqrt{\frac{R_4g_m+R_5g_m+1}{R_4R_5(C_2C_4+2C_2C_5+C_4C_5)}}(C_2C_4+2C_2C_5+C_4C_5)}{2C_2R_4+C_2R_5+C_4R_4R_5g_m+C_4R_4+C_5R_4R_5g_m+C_5R_5}\\ \text{wo:} \ \sqrt{\frac{R_4g_m+R_5g_m+1}{R_4R_5(C_2C_4+2C_2C_5+C_4C_5)}}\\ \text{bandwidth:} \ \frac{2C_2R_4+C_2R_5+C_4R_4R_5g_m+C_4R_4+C_5R_4R_5g_m+C_5R_5}{R_4R_5(C_2C_4+2C_2C_5+C_4C_5)}\\ \text{K-LP:} \ \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{R_4R_5(C_2-C_5)}{2(2C_2R_4+C_2R_5+C_4R_4R_5g_m+C_4R_4+C_5R_4R_5g_m+C_5R_5)}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

8.12 INVALID-NUMER-12 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 R_2 s - C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left(2 C_2 C_5 R_2 R_4 s^2 + C_2 R_2 s + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1 \right)}$$

Parameters:

 $\begin{array}{c} \text{Q: } \frac{\sqrt{2}C_{2}C_{5}R_{2}R_{4}\sqrt{\frac{R_{2}g_{m}+1}{C_{2}C_{5}R_{2}R_{4}}}}{C_{2}R_{2}+C_{5}R_{2}R_{4}g_{m}+C_{5}R_{2}+2C_{5}R_{4}} \\ \text{Wo: } \frac{\sqrt{2}\sqrt{\frac{R_{2}g_{m}+1}{2}C_{5}R_{2}R_{4}}}{\frac{2}{2}} \end{array}$ wo: $\frac{}{2}$ bandwidth: $\frac{C_2R_2 + C_5R_2R_4g_m + C_5R_2 + 2C_5R_4}{2C_2C_5R_2R_4}$ K-LP: $\frac{R_4}{2}$ K-HP: 0 K-BP: $\frac{R_2R_4(C_2-C_5)}{2(C_2R_2+C_5R_2R_4g_m+C_5R_2+2C_5R_4)}$ Qz: 0

8.13 INVALID-NUMER-13 $Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 R_2 R_5 s - C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(2 C_2 C_5 R_2 R_4 R_5 s^2 + 2 C_2 R_2 R_4 s + C_2 R_2 R_5 s + C_5 R_2 R_4 R_5 g_m s + C_5 R_2 R_5 s + 2 C_5 R_4 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

Parameters:

Wz: None

Q: $\frac{\sqrt{2}C_{2}C_{5}R_{2}R_{4}R_{5}\sqrt{\frac{R_{2}R_{4}g_{m}+R_{2}R_{5}g_{m}+R_{2}+2R_{4}+R_{5}}{C_{2}C_{5}R_{2}R_{4}R_{5}}}}{2C_{2}R_{2}R_{4}+C_{2}R_{2}R_{5}+C_{5}R_{2}R_{4}R_{5}g_{m}+C_{5}R_{2}R_{5}+2C_{5}R_{4}R_{5}}$ bandwidth: $\frac{2C_2R_2R_4+C_2R_2R_5+C_5R_2R_4R_5g_m+C_5R_2R_5+2C_5R_4R_5}{2C_2C_5R_2R_4R_5}$ K-LP: $\frac{R_4(R_2R_5g_m-R_2+R_5)}{2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}$ K-HP: 0

K-BP: $\frac{R_2R_4R_5(C_2-C_5)}{2(2C_2R_2R_4+C_2R_2R_5+C_5R_2R_4R_5g_m+C_5R_2R_5+2C_5R_4R_5)}$

Qz: 0 Wz: None

8.14 INVALID-NUMER-14 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{C_2R_2R_5s + R_2R_5g_m - R_2 + R_5}{2\left(C_2C_4R_2R_5s^2 + 2C_2R_2s + C_4R_2R_5g_ms + C_4R_2s + C_4R_5s + R_2g_m + 2\right)}$$

Parameters:

Q: $\frac{C_2C_4R_2R_5\sqrt{\frac{R_2g_m+2}{C_2C_4R_2R_5}}}{2C_2R_2+C_4R_2R_5g_m+C_4R_2+C_4R_5}$ wo: $\sqrt{\frac{R_2 g_m + 2}{C_2 C_4 R_2 R_5}}$ bandwidth: $\frac{2C_2 R_2 + C_4 R_2 R_5 g_m + C_4 R_2 + C_4 R_5}{C_2 C_4 R_2 R_5}$ K-LP: $\frac{R_2R_5g_m - R_2 + R_5}{2(R_2g_m + 2)}$ K-HP: 0 K-BP: $\frac{C_2R_2R_5}{2(2C_2R_2+C_4R_2R_5g_m+C_4R_2+C_4R_5)}$ Qz: 0 Wz: None

8.15 INVALID-NUMER-15 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5}{2\left(C_2C_4R_2R_5s^2 + 2C_2C_5R_2R_5s^2 + 2C_2R_2s + C_4C_5R_2R_5s^2 + C_4R_2R_5g_ms + C_4R_2s + C_4R_5s + C_5R_2R_5g_ms + 2C_5R_5s + R_2g_m + 2\right)}$$

Parameters:

 $\mathbf{Q}\colon \frac{R_2R_5\sqrt{\frac{R_2g_m+2}{R_2R_5(C_2C_4+2C_2C_5+C_4C_5)}}(C_2C_4+2C_2C_5+C_4C_5)}{2C_2R_2+C_4R_2R_5g_m+C_4R_2+C_4R_5+C_5R_2R_5g_m+2C_5R_5}$

```
Wo: \sqrt{\frac{R_2g_m+2}{R_2R_5(C_2C_4+2C_2C_5+C_4C_5)}}
       bandwidth: \frac{2C_2R_2 + C_4R_2R_5g_m + C_4R_2 + C_4R_5 + C_5R_2R_5g_m + 2C_5R_5}{R_2R_5(C_2C_4 + 2C_2C_5 + C_4C_5)}
       K-LP: \frac{R_2R_5g_m - R_2 + R_5}{2(R_2g_m + 2)}
       K-HP: 0
      K-BP: \frac{R_2R_5(C_2-C_5)}{2(2C_2R_2+C_4R_2R_5g_m+C_4R_2+C_4R_5+C_5R_2R_5g_m+2C_5R_5)}
       Qz: 0
       Wz: None
8.16 INVALID-NUMER-16 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)
                                                                                                                                     H(s) = \frac{R_4 \left( C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left( C_2 C_4 R_2 R_4 R_5 s^2 + 2 C_2 R_2 R_4 s + C_2 R_2 R_5 s + C_4 R_2 R_4 R_5 g_m s + C_4 R_2 R_4 s + C_4 R_4 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}
   Parameters:
       Q: \frac{C_2C_4R_2R_4R_5\sqrt{\frac{R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5}{C_2C_4R_2R_4R_5}}}{2C_2R_2R_4+C_2R_2R_5+C_4R_2R_4R_5g_m+C_4R_2R_4+C_4R_4R_5}
   \begin{array}{c} -2C_{2}R_{2}R_{4}+C_{2}R_{2}\overline{R_{5}}+C_{4}R_{2}R_{4}R_{5}g_{m}+C_{4}R_{2}R_{4}+C_{4}R_{4}R_{5}\\ \text{Wo:} \ \sqrt{\frac{R_{2}R_{4}g_{m}+R_{2}R_{5}g_{m}+R_{2}+2R_{4}+R_{5}}{C_{2}C_{4}R_{2}R_{4}R_{5}}}\\ \text{bandwidth:} \ \frac{2C_{2}R_{2}R_{4}+C_{2}R_{2}R_{5}+C_{4}R_{2}R_{4}R_{5}g_{m}+C_{4}R_{2}R_{4}+C_{4}R_{4}R_{5}}{C_{2}C_{4}R_{2}R_{4}R_{5}}\\ \text{K-LP:} \ \frac{R_{4}(R_{2}R_{5}g_{m}-R_{2}+R_{5})}{2(R_{2}R_{4}g_{m}+R_{2}R_{5}g_{m}+R_{2}+2R_{4}+R_{5})}\\ \text{K-HP:} \ 0\\ \text{K-DP}. \end{array}
      K-BP: \frac{C_2R_2R_4R_5}{2(2C_2R_2R_4+C_2R_2R_5+C_4R_2R_4R_5g_m+C_4R_2R_4+C_4R_4R_5)}
       Qz: 0
       Wz: None
8.17 INVALID-NUMER-17 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)
                                                                                                                                  H(s) = \frac{R_4 \left( C_2 R_2 s - C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left( C_2 C_4 R_2 R_4 s^2 + 2 C_2 C_5 R_2 R_4 s^2 + C_4 R_2 R_4 s^2 + C_4 R_2 R_4 g_m s + C_4 R_4 s + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1 \right)}
   Parameters:
       Q: \frac{R_2R_4\sqrt{\frac{R_2g_m+1}{R_2R_4(C_2C_4+2C_2C_5+C_4C_5)}}(C_2C_4+2C_2C_5+C_4C_5)}{C_2R_2+C_4R_2R_4g_m+C_4R_4+C_5R_2R_4g_m+C_5R_2+2C_5R_4}
      wo: \sqrt{\frac{R_2g_m+1}{R_2R_4(C_2C_4+2C_2C_5+C_4C_5)}}
bandwidth: \frac{C_2R_2+C_4R_2R_4g_m+C_4R_4+C_5R_2R_4g_m+C_5R_2+2C_5R_4}{R_2R_4(C_2C_4+2C_2C_5+C_4C_5)}
       K-LP: \frac{R_4}{2}
       K-HP: 0
      K-BP: \frac{R_2R_4(C_2-C_5)}{2(C_2R_2+C_4R_2R_4g_m+C_4R_4+C_5R_2R_4g_m+C_5R_2+2C_5R_4)}
        Qz: 0
       Wz: None
8.18 INVALID-NUMER-18 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                            R_4 \left( C_2 R_2 R_5 s - C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)
                                            H(s) = \frac{1}{2\left(C_{2}C_{4}R_{2}R_{4}R_{5}s^{2} + 2C_{2}C_{5}R_{2}R_{4}R_{5}s^{2} + 2C_{2}R_{2}R_{4}s + C_{2}R_{2}R_{5}s + C_{4}C_{5}R_{2}R_{4}R_{5}s^{2} + C_{4}R_{2}R_{4}R_{5}g_{m}s + C_{4}R_{2}R_{4}s + C_{4}R_{4}R_{5}s + C_{5}R_{2}R_{4}R_{5}g_{m}s + C_{5}R_{2}R_{5}s + 2C_{5}R_{4}R_{5}s + R_{2}R_{4}g_{m} + R_{2}R_{5}g_{m} + R_{2} + 2R_{4} + R_{5}\right)}
   Parameters:
       \text{Q: } \frac{R_2R_4R_5\sqrt{\frac{R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5}{R_2R_4R_5(C_2C_4+2C_2C_5+C_4C_5)}}(C_2C_4+2C_2C_5+C_4C_5)}{2C_2R_2R_4+C_2R_2R_5+C_4R_2R_4R_5g_m+C_4R_2R_4+C_4R_4R_5+C_5R_2R_4R_5g_m+C_5R_2R_5+2C_5R_4R_5}
       \begin{array}{l} \text{wo: } \sqrt{\frac{R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5}{R_2R_4R_5(C_2C_4 + 2C_2C_5 + C_4C_5)}} \\ \text{wo: } \sqrt{\frac{R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5}{R_2R_4R_5(C_2C_4 + 2C_2C_5 + C_4C_5)}} \\ \text{bandwidth: } \frac{2C_2R_2R_4 + C_2R_2R_5 + C_4R_2R_4R_5g_m + C_4R_2R_4 + C_4R_4R_5 + C_5R_2R_4R_5g_m + C_5R_2R_5 + 2C_5R_4R_5}{R_2R_4R_5(C_2C_4 + 2C_2C_5 + C_4C_5)} \\ \end{array} 
      K-LP: \frac{R_4(R_2R_5g_m - R_2 + R_5)}{2(R_2R_4g_m + R_2R_5g_m + R_2 + 2R_4 + R_5)}
```

 $\begin{array}{l} \text{K-BP:} \ \ \frac{R_2R_4R_5(C_2-C_5)}{2(2C_2R_2R_4+C_2R_2R_5+C_4R_2R_4R_5g_m+C_4R_2R_4+C_4R_4R_5+C_5R_2R_4R_5g_m+C_5R_2R_5+2C_5R_4R_5)} \\ \end{array}$

Qz: 0 Wz: None

8.19 INVALID-NUMER-19 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1}{2\left(C_2C_4R_2R_5g_ms^2 + C_2C_4R_2s^2 + C_2C_4R_5s^2 + C_2R_2g_ms + 2C_2s + C_4R_5g_ms + C_4s + g_m\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_2C_4\sqrt{\frac{g_m}{C_2C_4(R_2R_5g_m+R_2+R_5)}}(R_2R_5g_m+R_2+R_5)}{C_2R_2g_m+2C_2+C_4}R_5g_m+C_4} \\ \text{wo:} \ \sqrt{\frac{g_m}{C_2C_4(R_2R_5g_m+R_2+R_5)}} \\ \text{bandwidth:} \ \frac{C_2R_2g_m+2C_2+C_4R_5g_m+C_4}{C_2C_4(R_2R_5g_m+R_2+R_5)} \\ \text{K-LP:} \ \frac{R_5g_m-1}{2g_m} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2(R_2R_5g_m-R_2+R_5)}{2(C_2R_2g_m+2C_2+C_4R_5g_m+C_4)} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.20 INVALID-NUMER-20 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 R_2 R_4 R_5 g_m s^2 + C_2 C_4 R_2 R_4 s^2 + C_2 C_4 R_4 R_5 s^2 + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 s + 2 C_2 R_4 s + C_2 R_5 s + C_4 R_4 R_5 g_m s + C_4 R_4 s + R_4 g_m + R_5 g_m + 1 \right)}$$

Parameters:

9 INVALID-WZ

9.1 INVALID-WZ-1 $Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{\left(C_4 R_4 s + 1\right) \left(C_5 R_2 R_5 s - R_2 R_5 g_m + R_2 - R_5\right)}{2 \left(C_4 C_5 R_2 R_4 R_5 g_m s^2 + C_4 C_5 R_2 R_5 s^2 + 2 C_4 C_5 R_4 R_5 s^2 + C_4 R_2 R_4 g_m s + C_4 R_2 R_5 g_m s + C_4 R_2 s + 2 C_4 R_4 s + C_4 R_5 s + C_5 R_2 R_5 g_m s + 2 C_5 R_5 s + R_2 g_m + 2\right)}$$

$$\begin{array}{l} Q\colon \frac{C_4C_5R_5\sqrt{\frac{R_2g_m+2}{C_4C_5R_5(R_2R_4g_m+R_2+2R_4)}}(R_2R_4g_m+R_2+2R_4)}{C_4R_2R_4g_m+C_4R_2R_5g_m+C_4R_2+2C_4R_4+C_4R_5+C_5R_2R_5g_m+2C_5R_5}\\ \text{Wo:} \ \sqrt{\frac{R_2g_m+2}{C_4C_5R_5(R_2R_4g_m+R_2+2R_4)}}\\ \text{bandwidth:} \ \frac{C_4R_2R_4g_m+C_4R_2R_5g_m+C_4R_2+2C_4R_4+C_4R_5+C_5R_2R_5g_m+2C_5R_5}{C_4C_5R_5(R_2R_4g_m+R_2+2R_4)}\\ \text{K-LP:} \ \frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}\\ \text{K-HP:} \ -\frac{R_2R_4}{2R_2R_4g_m+2R_2+4R_4}\\ \text{K-BP:} \ \frac{C_4R_2R_4g_m+2R_2+4R_4}{2R_2R_4g_m+C_4R_2R_5g_m-C_4R_2R_4+C_4R_4R_5-C_5R_2R_5}{2(R_2g_m+2)}\\ \text{Qz:} \ -\frac{C_4C_5R_2R_4R_5g_m-C_4R_2R_4+C_4R_4+C_4R_5+C_5R_2R_5g_m+2C_5R_5}{C_4R_2R_4R_5g_m-C_4R_2R_4+C_4R_4+C_4R_5+C_5R_2R_5g_m+2C_5R_5}\\ \text{Wz:} \ \sqrt{\frac{-R_2R_5g_m+R_2-R_5}{C_4C_5R_2R_4R_5}}\\ \end{array}$$

9.2 INVALID-WZ-2 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(2 C_2 C_5 R_4 s^2 + C_2 C_5 R_5 s^2 + C_2 s + C_5 R_4 g_m s + C_5 R_5 g_m s + C_5 s + g_m \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_2C_5\sqrt{\frac{g_m}{C_2C_5(2R_4+R_5)}}(2R_4+R_5)}{C_2+C_5R_4g_m+C_5R_5g_m+C_5} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_2C_5(2R_4+R_5)}} \\ & \text{bandwidth:} \ \frac{C_2+C_5R_4g_m+C_5R_5g_m+C_5}{C_2C_5(2R_4+R_5)} \\ & \text{K-LP:} \ \frac{R_4}{2} \\ & \text{K-HP:} \ \frac{R_4R_5}{2(2R_4+R_5)} \\ & \text{K-BP:} \ \frac{R_4(C_2+C_5R_5g_m-C_5)}{2(C_2+C_5R_4g_m+C_5R_5g_m+C_5)} \\ & \text{Qz:} \ \frac{C_2C_5R_5\sqrt{\frac{g_m}{C_2C_5(2R_4+R_5)}}}{C_2+C_5R_5g_m-C_5} \\ & \text{Wz:} \ \sqrt{\frac{g_m}{C_2C_5R_5}} \end{aligned}$$

9.3 INVALID-WZ-3 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(2 C_2 C_4 R_4 s^2 + C_2 C_4 R_5 s^2 + 2 C_2 s + C_4 R_4 g_m s + C_4 R_5 g_m s + C_4 s + g_m\right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_2C_4\sqrt{\frac{g_m}{C_2C_4(2R_4+R_5)}}(2R_4+R_5)}{2C_2+C_4R_4g_m+C_4R_5g_m+C_4} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_2C_4(2R_4+R_5)}} \\ & \text{bandwidth:} \ \frac{2C_2+C_4R_4g_m+C_4R_5g_m+C_4}{C_2C_4(2R_4+R_5)} \\ & \text{K-LP:} \ \frac{R_5g_m-1}{2g_m} \\ & \text{K-HP:} \ \frac{R_4R_5}{2(2R_4+R_5)} \\ & \text{K-BP:} \ \frac{C_2R_5+C_4R_4g_m-C_4R_4}{2(2C_2+C_4R_4g_m+C_4R_5g_m+C_4)} \\ & \text{Qz:} \ \frac{C_2C_4R_4R_5\sqrt{\frac{g_m}{C_2C_4(2R_4+R_5)}}}{C_2R_5+C_4R_4R_5g_m-C_4R_4} \\ & \text{Wz:} \ \sqrt{\frac{R_5g_m-1}{C_2C_4R_4R_5}} \end{aligned}$$

9.4 INVALID-WZ-4 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 R_2 R_5 s^2 + C_2 R_2 s + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{2 \left(2 C_2 C_5 R_2 R_4 s^2 + C_2 C_5 R_2 R_5 s^2 + C_2 R_2 s + C_5 R_2 R_4 g_m s + C_5 R_2 R_5 g_m s + C_5 R_2 s + 2 C_5 R_4 s + C_5 R_5 s + R_2 g_m + 1\right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_2C_5R_2\sqrt{\frac{R_2g_m+1}{C_2C_5R_2(2R_4+R_5)}}(2R_4+R_5)}{C_2R_2+C_5R_2R_4g_m+C_5}R_2R_5g_m+C_5R_2+2C_5R_4+C_5R_5} \\ & \text{Wo:} \ \sqrt{\frac{R_2g_m+1}{C_2C_5R_2(2R_4+R_5)}} \\ & \text{bandwidth:} \ \frac{C_2R_2+C_5R_2R_4g_m+C_5R_2R_5g_m+C_5R_2+2C_5R_4+C_5R_5}{C_2C_5R_2(2R_4+R_5)} \\ & \text{K-LP:} \ \frac{R_4}{2} \\ & \text{K-HP:} \ \frac{R_4R_5}{2(2R_4+R_5)} \\ & \text{K-BP:} \ \frac{R_4(C_2R_2+C_5R_2R_5g_m-C_5R_2+C_5R_5)}{2(C_2R_2+C_5R_2R_4g_m+C_5R_2R_5g_m+C_5R_2+2C_5R_4+C_5R_5)} \\ & \text{Qz:} \ \frac{C_2C_5R_2R_5\sqrt{\frac{R_2g_m+1}{C_2C_5R_2(2R_4+R_5)}}}{C_2R_2+C_5R_2R_5g_m-C_5R_2+C_5R_5} \\ & \text{Wz:} \ \sqrt{\frac{R_2g_m+1}{C_2C_5R_2R_5}} \end{aligned}$$

9.5 INVALID-WZ-5
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(2C_2C_4R_2R_4s^2 + C_2C_4R_2R_5s^2 + 2C_2R_2s + C_4R_2R_4g_ms + C_4R_2R_5g_ms + C_4R_2s + 2C_4R_4s + C_4R_5s + R_2g_m + 2\right)}$$

$$\begin{array}{l} \text{Q:} & \frac{C_2C_4R_2\sqrt{\frac{R_2g_m+2}{C_2C_4R_2(2R_4+R_5)}}(2R_4+R_5)}{2C_2R_2+C_4R_2R_4g_m+C_4R_2R_5g_m+C_4R_2+2C_4R_4+C_4R_5}\\ \text{wo:} & \sqrt{\frac{R_2g_m+2}{C_2C_4R_2(2R_4+R_5)}}\\ \text{bandwidth:} & \frac{2C_2R_2+C_4R_2R_4g_m+C_4R_2R_5g_m+C_4R_2+2C_4R_4+C_4R_5}{C_2C_4R_2(2R_4+R_5)}\\ \text{K-LP:} & \frac{R_2R_5g_m-R_2+R_5}{2(R_2g_m+2)}\\ \text{K-HP:} & \frac{R_4R_5}{2(2R_4+R_5)}\\ \text{K-BP:} & \frac{C_2R_2R_5+C_4R_2R_4R_5g_m-C_4R_2R_4+C_4R_4R_5}{2(2C_2R_2+C_4R_2R_4g_m+C_4R_2R_5g_m+C_4R_2+2C_4R_4+C_4R_5)}\\ \text{Qz:} & \frac{C_2C_4R_2R_4R_5\sqrt{\frac{R_2g_m+2}{C_2C_4R_2(2R_4+R_5)}}}{C_2R_2R_5+C_4R_2R_4R_5g_m-C_4R_2R_4+C_4R_4R_5}\\ \text{Wz:} & \sqrt{\frac{R_2R_5g_m-R_2+R_5}{C_2C_4R_2R_4R_5}}\\ \end{array}$$

9.6 INVALID-WZ-6 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m \right)}{2 \left(C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

Parameters:

$$\begin{aligned} &\text{Q:} \ \frac{C_2C_5\sqrt{\frac{g_m}{C_2C_5(R_2R_4g_m+R_2+2R_4)}}(R_2R_4g_m+R_2+2R_4)}{C_2R_2g_m+C_2+C_5R_4g_m+C_5}\\ &\text{wo:} \ \sqrt{\frac{g_m}{C_2C_5(R_2R_4g_m+R_2+2R_4)}}\\ &\text{bandwidth:} \ \frac{C_2R_2g_m+C_2+C_5R_4g_m+C_5}{C_2C_5(R_2R_4g_m+R_2+2R_4)}\\ &\text{K-LP:} \ \frac{R_4}{2}\\ &\text{K-HP:} \ -\frac{R_2R_4}{2R_2R_4g_m+2R_2+4R_4}\\ &\text{K-BP:} \ \frac{R_4(C_2R_2g_m+C_2-C_5)}{2(C_2R_2g_m+C_2+C_5R_4g_m+C_5)}\\ &\text{Qz:} \ -\frac{C_2C_5R_2\sqrt{\frac{g_m}{C_2C_5(R_2R_4g_m+R_2+2R_4)}}}{C_2R_2g_m+C_2-C_5}\\ &\text{Wz:} \ \sqrt{-\frac{g_m}{C_2C_5R_2}} \end{aligned}$$

9.7 INVALID-WZ-7 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_2 C_5 R_2 R_5 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_5 R_2 R_4 R_5 g_m s^2 + C_2 C_5 R_2 R_5 s^2 + 2 C_2 C_5 R_4 R_5 s^2 + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 s + 2 C_2 R_4 s + C_2 R_5 s + C_5 R_4 R_5 g_m s + C_5 R_5 s + R_4 g_m + R_5 g_m + 1\right)}$$

$$\begin{aligned} & Q \colon \frac{C_2C_5R_5\sqrt{\frac{R_4g_m+R_5g_m+1}{C_2C_5R_5(R_2R_4g_m+R_2+2R_4)}}(R_2R_4g_m+R_2+2R_4)}{C_2R_2R_4g_m+C_2R_2R_5g_m+C_2R_2+2C_2R_4+C_2R_5+C_5R_4R_5g_m+C_5R_5} \\ & \text{wo:} & \sqrt{\frac{R_4g_m+R_5g_m+1}{C_2C_5R_5(R_2R_4g_m+R_2+2R_4)}} \\ & \text{bandwidth:} & \frac{C_2R_2R_4g_m+C_2R_2R_5g_m+C_2R_2+2C_2R_4+C_2R_5+C_5R_4R_5g_m+C_5R_5}{C_2C_5R_5(R_2R_4g_m+R_2+2R_4)} \\ & \text{K-LP:} & \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)} \\ & \text{K-HP:} & -\frac{R_2R_4}{2R_2R_4g_m+2R_2+4R_4} \\ & \text{K-BP:} & \frac{R_4(C_2R_2R_5g_m-C_2R_2+C_2R_5-C_5R_5)}{2(C_2R_2R_4g_m+C_2R_2R_5g_m+C_2R_2+2C_2R_4+C_2R_5+C_5R_4R_5g_m+C_5R_5)} \\ & \text{Qz:} & -\frac{C_2C_5R_2R_5\sqrt{\frac{R_4g_m+R_5g_m+1}{C_2C_5R_5(R_5R_4g_m+R_2+2R_4)}}}{C_2R_2R_5g_m-C_2R_2+C_2R_5-C_5R_5} \\ & \text{Wz:} & \sqrt{\frac{-R_5g_m+1}{C_2C_5R_2R_5}} \end{aligned}$$

9.8 INVALID-WZ-8
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5 R_2 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_4 g_m s + C_5 R_5 g_m s + C_5 s + g_m \right)}$$

$$\begin{aligned} &\text{Q:} & \frac{C_2C_5\sqrt{\frac{g_m}{C_2C_5(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}}(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}{C_2R_2g_m+C_2+C_5R_4g_m+C_5R_5g_m+C_5} \\ &\text{wo:} & \sqrt{\frac{g_m}{C_2C_5(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}} \\ &\text{bandwidth:} & \frac{C_2R_2g_m+C_2+C_5R_4g_m+C_5R_5g_m+C_5}{C_2C_5(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)} \\ &\text{K-LP:} & \frac{R_4}{2} \\ &\text{K-HP:} & \frac{R_4(R_2R_5g_m-R_2+R_5)}{2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)} \\ &\text{K-BP:} & \frac{R_4(C_2R_2g_m+C_2+C_5R_5g_m-C_5)}{2(C_2R_2g_m+C_2+C_5R_4g_m+C_5R_5g_m+C_5)} \\ &\text{Qz:} & \frac{C_2C_5\sqrt{\frac{g_m}{C_2C_5(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}}(R_2R_5g_m-R_2+R_5)}{C_2R_2g_m+C_2+C_5R_5g_m-C_5} \\ &\text{Wz:} & \sqrt{\frac{g_m}{C_2C_5(R_2R_5g_m-R_2+R_5)}} \end{aligned}$$

9.9 INVALID-WZ-9 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 R_2 R_4 g_m s^2 + C_2 C_4 R_2 g^2 + C_2 C_4 R_2 s^2 + 2 C_2 C_4 R_4 s^2 + C_2 C_4 R_5 s^2 + C_2 R_2 g_m s + 2 C_2 s + C_4 R_4 g_m s + C_4 R_5 g_m s + C_4 s + g_m\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} & \frac{C_2C_4\sqrt{\frac{g_m}{C_2C_4(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}}(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}{C_2R_2g_m+2C_2+C_4R_4g_m+C_4R_5g_m+C_4}\\ \text{Wo:} & \sqrt{\frac{g_m}{C_2C_4(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}}\\ \text{bandwidth:} & \frac{C_2R_2g_m+2C_2+C_4R_4g_m+C_4R_5g_m+C_4}{C_2C_4(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}\\ \text{K-LP:} & \frac{R_5g_m-1}{2g_m}\\ \text{K-HP:} & \frac{R_4(R_2R_5g_m-R_2+R_5)}{2(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}\\ \text{K-BP:} & \frac{C_2R_2R_5g_m-C_2R_2+C_2R_5+C_4R_4R_5g_m-C_4R_4}{2(C_2R_2g_m+2C_2+C_4R_4g_m+C_4R_5g_m+C_4)}\\ \text{Qz:} & \frac{C_2C_4R_4\sqrt{\frac{g_m}{C_2C_4(R_2R_4g_m+R_2R_5g_m+R_2+2R_4+R_5)}}(R_2R_5g_m-R_2+R_5)}{C_2R_2R_5g_m-C_2R_2+C_2R_5+C_4R_4R_5g_m-C_4R_4}\\ \text{Wz:} & \sqrt{\frac{R_5g_m-1}{C_2C_4R_4(R_2R_5g_m-R_2+R_5)}}\\ \end{array}$$

10 INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (\infty, R_2, \infty, R_4, R_5, \infty)$

$$H(s) = \frac{R_4 \left(R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(\infty, R_2, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left(C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1 \right)}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(\infty, R_2, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_5 R_2 R_4 R_5 g_m s + C_5 R_2 R_5 s + 2 C_5 R_4 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

10.4 INVALID-ORDER-4
$$Z(s) = \left(\infty, R_2, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1 \right)}{2 \left(C_5 R_2 R_4 g_m s + C_5 R_2 R_5 g_m s + C_5 R_2 s + 2 C_5 R_4 s + C_5 R_5 s + R_2 g_m + 1 \right)}$$

10.5 INVALID-ORDER-5
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5}{2 \left(C_4 R_2 R_5 g_m s + C_4 R_2 s + C_4 R_5 s + R_2 g_m + 2 \right)}$$

10.6 INVALID-ORDER-6
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_5 R_2 s + R_2 g_m + 1}{2s \left(C_4 C_5 R_2 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2C_5\right)}$$

10.7 INVALID-ORDER-7
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1}{2 s \left(C_4 C_5 R_2 R_5 g_m s + C_4 C_5 R_2 s + C_4 C_5 R_5 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5 \right)}$$

10.8 INVALID-ORDER-8
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1}{2s \left(C_4 C_5 L_5 R_2 g_m s^2 + C_4 C_5 L_5 s^2 + C_4 C_5 R_2 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5 \right)}$$

10.9 INVALID-ORDER-9
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2}{2 \left(C_4 C_5 L_5 R_2 s^3 + C_4 L_5 R_2 g_m s^2 + C_4 L_5 s^2 + C_4 R_2 s + C_5 L_5 R_2 g_m s^2 + 2 C_5 L_5 s^2 + R_2 g_m + 2 \right)}$$

10.10 INVALID-ORDER-10
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1}{2 s \left(C_4 C_5 L_5 R_2 g_m s^2 + C_4 C_5 L_5 s^2 + C_4 C_5 R_2 R_5 g_m s + C_4 C_5 R_2 s + C_4 C_5 R_5 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5 \right)}$$

10.11 INVALID-ORDER-11
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_5L_5R_2R_5s^2 + L_5R_2R_5g_ms - L_5R_2s + L_5R_5s - R_2R_5}{2\left(C_4C_5L_5R_2R_5s^3 + C_4L_5R_2s + C_4L_5R_2s^2 + C_4L_5R_5s^2 + C_4R_2R_5s + C_5L_5R_2R_5g_ms^2 + 2C_5L_5R_5s^2 + L_5R_2g_ms + 2L_5s + R_2R_5g_m + 2R_5\right)}$$

10.12 INVALID-ORDER-12
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + R_5}{2\left(C_4C_5L_5R_2g_ms^3 + C_4C_5L_5R_2s^3 + C_4C_5L_5R_5s^3 + C_4L_5R_2g_ms^2 + C_4L_5s^2 + C_4R_2s + C_4R_2s + C_4R_5s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + R_2g_m + 2\right)}$$

10.13 INVALID-ORDER-13
$$Z(s) = \left(\infty, R_2, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5}{2\left(C_4C_5L_5R_2s^3 + C_4C_5L_5R_2s^3 + C_4C_5L_5R_2s^3 + C_4C_5R_2R_5s^2 + C_4R_2R_5g_ms + C_4R_2s + C_4R_5s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + C_5R_2R_5g_ms + 2C_5R_5s + R_2g_m + 2\right)}$$

10.14 INVALID-ORDER-14
$$Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_4 R_2 R_4 R_5 g_m s + C_4 R_2 R_4 s + C_4 R_4 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

10.15 INVALID-ORDER-15
$$Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left(C_4 C_5 L_5 R_2 R_4 g_m s^3 + C_4 C_5 L_5 R_4 s^3 + C_4 C_5 R_2 R_4 s^2 + C_4 R_2 R_4 g_m s + C_4 R_4 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1 \right)}$$

10.16 INVALID-ORDER-16
$$Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2 \right)}{2 \left(C_4 C_5 L_5 R_2 R_4 s^3 + C_4 L_5 R_2 g_m s^2 + C_4 L_5 R_4 s^2 + C_4 R_2 R_4 s + C_5 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_4 g_m + R_2 + 2 R_4 \right)}$$

10.17 INVALID-ORDER-17
$$Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

10.18 INVALID-ORDER-18
$$Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

10.19 INVALID-ORDER-19
$$Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_4 C_5 L_5 R_2 R_4 R_5 g_m s^3 + C_4 C_5 L_5 R_2 R_4 g_m s^2 + C_4 L_5 R_4 g_m s^2 + C_5 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 g_m$$

10.20 INVALID-ORDER-20
$$Z(s) = \left(\infty, R_2, \infty, \frac{R_4}{C_4R_4s+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 - C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_4 C_5 L_5 R_2 R_4 R_5 g_m s^3 + C_4 C_5 L_5 R_4 R_5 s^3 + C_4 C_5 R_2 R_4 R_5 s^2 + C_4 R_2 R_4 R_5 g_m s + C_4 R_2 R_4 s + C_4 R_4 R_5 s + C_5 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 R_5 s^2 + C_5 R_2 R_4 R_5 g_m s + C_5 R_2 R_4 R$$

10.21 INVALID-ORDER-21 $Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{(C_4 R_4 s + 1) (R_2 R_5 g_m - R_2 + R_5)}{2 (C_4 R_2 R_4 g_m s + C_4 R_2 R_5 g_m s + C_4 R_2 s + 2C_4 R_4 s + C_4 R_5 s + R_2 g_m + 2)}$$

10.22 INVALID-ORDER-22
$$Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(-C_5 R_2 s + R_2 g_m + 1\right)}{2 s \left(C_4 C_5 R_2 R_4 g_m s + C_4 C_5 R_2 s + 2 C_4 C_5 R_4 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5\right)}$$

10.23 INVALID-ORDER-23
$$Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{2 s \left(C_4 C_5 R_2 R_4 g_m s + C_4 C_5 R_2 g_m s + C_4 C_5 R_2 s + 2 C_4 C_5 R_4 s + C_4 C_5 R_5 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5\right)}$$

10.24 INVALID-ORDER-24
$$Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{2 s \left(C_4 C_5 L_5 R_2 g_m s^2 + C_4 C_5 R_2 R_4 g_m s + C_4 C_5 R_2 s + 2 C_4 C_5 R_4 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5\right)}$$

10.25 INVALID-ORDER-25
$$Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_5L_5R_2s^2 - L_5R_2g_ms - L_5s + R_2\right)}{2\left(C_4C_5L_5R_2R_4g_ms^3 + C_4C_5L_5R_2s^3 + 2C_4C_5L_5R_4s^3 + C_4L_5R_2g_ms^2 + C_4L_5s^2 + C_4R_2R_4g_ms + C_4R_2s + 2C_4R_4s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + R_2g_m + 2\right)}$$

10.26 INVALID-ORDER-26
$$Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{2 s \left(C_4 C_5 L_5 R_2 g_m s^2 + C_4 C_5 L_5 s^2 + C_4 C_5 R_2 R_4 g_m s + C_4 C_5 R_2 g_m s + C_4 C_5 R_2 s + 2 C_4 C_5 R_4 s + C_4 C_5 R_5 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5\right)}$$

10.27 INVALID-ORDER-27
$$Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_5L_5R_2R_5s^2 - L_5R_2R_5g_ms + L_5R_2s - L_5R_5s + R_2R_5\right)}{2\left(C_4C_5L_5R_2R_4R_5g_ms^3 + C_4C_5L_5R_2R_5s^3 + 2C_4C_5L_5R_4R_5s^3 + C_4L_5R_2R_2g_ms^2 + C_4L_5R_2s^2 + 2C_4L_5R_4s^2 + 2C_4L_5R_5s^2 + 2C_4L_5R_5s^2 + 2C_4L_5R_5s^2 + 2C_4L_5R_5s^2 + 2C_4L_5R_5s$$

10.28 INVALID-ORDER-28
$$Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_4C_5L_5R_2R_4g_ms^3 + C_4C_5L_5R_2s^3 + 2C_4C_5L_5R_4s^3 + C_4C_5L_5R_2s^3 + C_4L_5R_2g_ms^2 + C_4L_5s^2 + C_4R_2R_4g_ms + C_4R_2s + 2C_4R_4s + C_4R_5s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + R_2g_m + 2C_5L_5s^2 + R_2g_ms + C_4R_2R_4g_ms + C_4R_4g_ms + C_4R_4g$$

10.29 INVALID-ORDER-29
$$Z(s) = \left(\infty, R_2, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_4C_5L_5R_2R_4g_ms^3 + C_4C_5L_5R_2s^3 + 2C_4C_5L_5R_4s^3 + C_4C_5L_5R_2s^3 + 2C_4C_5R_4R_5g_ms^2 + C_4C_5R_2R_4g_ms + C_4R_2s + 2C_4R_4s + C_4R_5s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + C_5R_2g_ms + 2C_5R_5s + C_5R_5s + C_$$

10.30 INVALID-ORDER-30 $Z(s) = \left(\infty, R_2, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(-C_5 R_2 s + R_2 g_m + 1\right)}{2 s \left(C_4 C_5 L_4 R_2 g_m s^2 + 2 C_4 C_5 L_4 s^2 + C_4 C_5 R_2 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5\right)}$$

10.31 INVALID-ORDER-31
$$Z(s) = \left(\infty, R_2, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_5R_2R_5s - R_2R_5g_m + R_2 - R_5\right)}{2\left(C_4C_5L_4R_2R_5g_ms^3 + 2C_4C_5L_4R_5s^3 + C_4C_5R_2R_5s^2 + C_4L_4R_2g_ms^2 + 2C_4L_4s^2 + C_4R_2R_5g_ms + C_4R_2s + C_4R_5s + C_5R_2R_5g_ms + 2C_5R_5s + R_2g_m + 2\right)}{2\left(C_4C_5L_4R_2R_5g_ms^3 + 2C_4C_5L_4R_5s^3 + C_4C_5R_2R_5s^2 + C_4L_4R_2g_ms^2 + 2C_4L_4s^2 + C_4R_2R_5g_ms + C_4R_5s + C_5R_2R_5g_ms + 2C_5R_5s + R_2g_m + 2\right)}$$

10.32 INVALID-ORDER-32
$$Z(s) = \left(\infty, R_2, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2s\left(C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5R_2R_5g_ms + C_4C_5R_2s + C_4C_5R_5s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}$$

10.33 INVALID-ORDER-33
$$Z(s) = \left(\infty, \ R_2, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{2 s \left(C_4 C_5 L_4 R_2 g_m s^2 + 2 C_4 C_5 L_4 s^2 + C_4 C_5 L_5 R_2 g_m s^2 + C_4 C_5 L_5 s^2 + C_4 C_5 R_2 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5\right)}$$

10.34 INVALID-ORDER-34
$$Z(s) = \left(\infty, R_2, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_2s^2 - L_5R_2g_ms - L_5s + R_2\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + 2C_4C_5L_4L_5s^4 + C_4C_5L_5R_2s^3 + C_4L_4R_2g_ms^2 + 2C_4L_4s^2 + C_4L_5R_2g_ms^2 + C_4L_5s^2 + C_4R_2s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + R_2g_m + 2\right)}$$

10.35 INVALID-ORDER-35
$$Z(s) = \left(\infty, R_2, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2s\left(C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5L_5g_ms^2 + C_4C_5L_5s^2 + C_4C_5R_2g_ms + C_4C_5R_2s + C_4$$

10.36 INVALID-ORDER-36
$$Z(s) = \left(\infty, R_2, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_2R_5s^2 - L_5R_2R_5g_ms + L_5R_2s - L_5R_5s + R_2R_5\right)}{2\left(C_4C_5L_4L_5R_2R_5g_ms^4 + 2C_4C_5L_4L_5R_5s^4 + C_4C_5L_5R_2R_5s^3 + C_4L_4L_5R_2g_ms^3 + 2C_4L_4R_5s^2 + C_4L_5R_2s^2 + C_4L_5R_2s^$$

10.37 INVALID-ORDER-37
$$Z(s) = \left(\infty, R_2, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + 2C_4C_5L_4L_5s^4 + C_4C_5L_5R_2g_ms^3 + C_4C_5L_5R_2s^3 + C_4L_4R_2g_ms^2 + 2C_4L_4s^2 + C_4L_5s^2 + C_4L_5s^2 + C_4R_2s + C_4R_5s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + R_2g_m + R_2s + C_4R_5s + C_4$$

10.38 INVALID-ORDER-38
$$Z(s) = \left(\infty, \ R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + 2C_4C_5L_4R_2S_5g_ms^3 + 2C_4C_5L_4R_5s^3 + C_4C_5L_5R_2s^3 + C_$$

10.39 INVALID-ORDER-39
$$Z(s) = \left(\infty, R_2, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4s\left(-C_5R_2s + R_2g_m + 1\right)}{2\left(C_4C_5L_4R_2s^3 + C_4L_4R_2g_ms^2 + C_4L_4s^2 + C_5L_4R_2g_ms^2 + 2C_5L_4s^2 + C_5R_2s + R_2g_m + 1\right)}$$

10.40 INVALID-ORDER-40
$$Z(s) = \left(\infty, R_2, \infty, \frac{L_{4s}}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{L_4s\left(-C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_4C_5L_4R_2R_5s^3 + C_4L_4R_2S_5g_ms^2 + C_4L_4R_2s^2 + C_4L_4R_5s^2 + C_5L_4R_2R_5g_ms^2 + 2C_5L_4R_5s^2 + C_5R_2R_5s + L_4R_2g_ms + 2L_4s + R_2R_5g_m + R_2 + R_5\right)}$$

10.41 INVALID-ORDER-41
$$Z(s) = \left(\infty, R_2, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4s\left(C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2\left(C_4C_5L_4R_2R_5g_ms^3 + C_4C_5L_4R_2s^3 + C_4C_5L_4R_2g_ms^2 + C_4L_4s^2 + C_5L_4R_2g_ms^2 + 2C_5L_4s^2 + C_5R_2R_5g_ms + C_5R_2s + C_5R_5s + R_2g_m + 1\right)}$$

10.42 INVALID-ORDER-42 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_4 s \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_4 C_5 L_4 L_5 R_2 g_m s^4 + C_4 C_5 L_4 L_5 s^4 + C_4 C_5 L_4 R_2 g_m s^2 + C_4 L_4 s^2 + C_5 L_4 R_2 g_m s^2 + 2 C_5 L_4 s^2 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 s + R_2 g_m + 1\right)}$$

10.43 INVALID-ORDER-43 $Z(s) = \left(\infty, R_2, \infty, \frac{L_{4s}}{C_4L_4s^2+1}, \frac{L_{5s}}{C_5L_5s^2+1}, \infty\right)$

$$H(s) = \frac{L_4 s \left(-C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2\right)}{2 \left(C_4 C_5 L_4 L_5 R_2 s^4 + C_4 L_4 L_5 R_2 g_m s^3 + C_4 L_4 L_5 s^3 + C_4 L_4 L_5 s^2 + C_5 L_4 L_5 R_2 g_m s^3 + 2 C_5 L_4 L_5 s^3 + C_5 L_5 R_2 s^2 + L_4 R_2 g_m s + 2 L_4 s + L_5 R_2 g_m s + L_5 s + R_2\right)}$$

10.44 INVALID-ORDER-44 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_{4}s\left(C_{5}L_{5}R_{2}g_{m}s^{2} + C_{5}L_{5}s^{2} + C_{5}R_{2}g_{m}s - C_{5}R_{2}s + C_{5}R_{5}s + R_{2}g_{m} + 1\right)}{2\left(C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{4} + C_{4}C_{5}L_{4}R_{2}F_{5}g_{m}s^{3} + C_{4}C_{5}L_{4}R_{2}s^{3} + C_{4}C_{5}L_{4}R_{2}g_{m}s^{2} + C_{5}L_{4}R_{2}g_{m}s^{2} + C_{5}L_{4}s^{2} + C_{5}L_{5}R_{2}g_{m}s^{2} + C_{5}L_{5}s^{2} + C_{5}R_{2}g_{m}s + C_{5}R_{2}s +$$

10.45 INVALID-ORDER-45 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

$$H(s) = \frac{L_4s\left(-C_5L_5R_2R_5s^2 + L_5R_2g_ms - L_5R_2s + L_5R_5s - R_2R_5\right)}{2\left(C_4C_5L_4L_5R_2R_5g_ms^3 + C_4L_4L_5R_2s^3 + C_4L_4L_5R_2s^3 + C_4L_4R_2R_5s^2 + C_5L_4L_5R_2g_ms^3 + 2C_5L_4L_5R_2s^3 + C_4L_4R_5s^2 + L_4R_2s^3 + C_4L_4R_5s^3 + C_5L_4L_5R_2s^3 + C_5L_5R_2s^3 + C_5L$$

10.46 INVALID-ORDER-46 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

$$H(s) = \frac{L_4s\left(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_2s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + C_4C_5L_4L_5R_2s^4 + C_4L_4L_5R_2g_ms^3 + C_4L_4R_2s^2 + C_4L_4R_2s^2 + C_5L_4L_5R_2g_ms^3 + 2C_5L_4L_5R_3s^2 + C_5L_5R_2s^2 + C_5L_5R_2$$

10.47 INVALID-ORDER-47 $Z(s) = \left(\infty, R_2, \infty, \frac{L_{4s}}{C_4L_4s^2+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{L_{4}s\left(C_{5}L_{5}R_{2}R_{5}g_{m}s^{2} - C_{5}L_{5}R_{2}s^{2} + C_{5}L_{5}R_{5}s^{2} - C_{5}R_{2}R_{5}g_{m} - R_{2} + R_{5}\right)}{2\left(C_{4}C_{5}L_{4}L_{5}R_{2}s^{4} + C_{4}C_{5}L_{4}L_{5}R_{5}s^{4} + C_{4}C_{5}L_{4}R_{2}R_{5}g_{m}s^{2} + C_{4}L_{4}R_{2}s^{2} + C_{4}L_{4}R_{5}s^{2} + C_{5}L_{4}L_{5}R_{3}s^{4} + C_{5}L_{4}L_{5}R_{5}g_{m}s^{2} + C_{5}L_{5}R_{2}s^{2} + C_{5}L_{4}R_{5}s^{2} + C_{5}L_{5}R_{2}s^{2} + C_{5}L_{5}R_{2}s^{2} + C_{5}L_{5}R_{2}s^{2} + C_{5}L_{5}R_{5}s^{2} + C_{5}L_{5}R_{5}$$

10.48 INVALID-ORDER-48 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(-C_5R_2s + R_2g_m + 1\right)}{2s\left(C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5R_2R_4g_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}$$

10.49 INVALID-ORDER-49 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5R_2R_5s - R_2R_5g_m + R_2 - R_5\right)}{2\left(C_4C_5L_4R_2R_5g_ms^3 + 2C_4C_5L_4R_5s^3 + C_4C_5R_2R_4Sg_ms^2 + 2C_4C_5R_4R_5s^2 + 2C_4C_5R_4R_5s^2 + 2C_4L_4S^2 + C_4R_2R_4g_ms + C_4R_2Sg_ms + C_4R_2S + 2C_4R_4s + C_4R_5s + C_5R_2Sg_ms + 2C_5R_5s + R_2g_m + 2C_5R_5s + R_$$

10.50 INVALID-ORDER-50 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2s\left(C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5R_2R_4g_ms + C_4C_5R_2R_5g_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4C_5R_5s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}$ 10.51 INVALID-ORDER-51 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2s\left(C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5L_5R_2g_ms^2 + C_4C_5R_2R_4g_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}$ 10.52 INVALID-ORDER-52 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = -\frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5R_2s^2 - L_5R_2g_ms - L_5s + R_2\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + 2C_4C_5L_4L_5s^4 + C_4C_5L_5R_2g_ms^3 + C_4C_5L_5R_2s^3 + 2C_4C_5L_5R_4s^3 + C_4L_4R_2g_ms^2 + 2C_4L_4s^2 + C_4L_5R_2g_ms^2 + C_4L_5s^2 + C_4R_2R_4g_ms + C_4R_2s + 2C_4R_4s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + R_2g_m + 2C_5L_5s^2 + R_2g_m + 2C_5L_5s^2 + C_4R_2g_ms^2 + 2C_4R_4s + C_5L_5R_2g_ms^2 + 2C_4L_4s^2 + C_4L_5R_2g_ms^2 + C_4L_5R_2g_ms^2 + C_4L_5R_2g_ms^2 + C_4L_5R_2g_ms^2 + C_4R_2g_ms^2 + C_4R_2g_ms^2$ 10.53 INVALID-ORDER-53 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2s\left(C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5L_5R_2g_ms^2 + C_4C_5R_2R_4g_ms + C_4C_5R_2R_5g_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4C_5R_5s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}$ 10.54 INVALID-ORDER-54 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$ $\frac{\left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{5}L_{5}R_{2}R_{5}s^{2}-L_{5}R_{2}R_{5}g_{m}s+L_{5}R_{2}s-L_{5}R_{5}s+R_{2}R_{5}\right)}{2\left(C_{4}C_{5}L_{4}L_{5}R_{2}R_{5}g_{m}s^{4}+2C_{4}C_{5}L_{5}R_{2}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{2}R_{5}s^{3}+2C_{4}C_{5}L_{5}R_{2}R_{5}s^{3}+2C_{4}C_{5}L_{5}R_{2}R_{5}g_{m}s^{3}+2C_{4}L_{5}R_{2}s^{2}+C_{4}L_{5}R_{2}s^{2}+C_{4}L_{5}R_{2}s^{2}+2C_{$ 10.55 INVALID-ORDER-55 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5R_2g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_2s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + 2C_4C_5L_5R_2s^4 + C_4C_5L_5R_2s^3 + 2C_4C_5L_5R_2s^3 + 2C_4C_5L_5R_2s^3 + C_4L_4R_2g_ms^2 + 2C_4L_4s^2 + C_4L_5s^2 + C_4R_2R_4g_ms + C_4R_2s + 2C_4R_4s + C_4R_5s + C_5L_5R_2g_ms^2 + C_4L_5s^2 +$ 10.56 INVALID-ORDER-56 $Z(s) = \left(\infty, R_2, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$ $(C_4L_4s^2 + C_4R_4s + 1)(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5)$ $H(s) = \frac{(C_4 L_{45} + C_4 L_{16} L_{37} + C_5 L_{16} L_{17} L_{$ 10.57 INVALID-ORDER-57 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{L_4 R_4 s \left(-C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_4 C_5 L_4 R_2 R_4 s^3 + C_4 L_4 R_2 R_4 g_m s^2 + C_5 L_4 R_2 R_4 g_m s^2 + C_5 L_4 R_2 s^2 + 2 C_5 L_4 R_4 s^2 + C_5 R_2 R_4 s + L_4 R_2 g_m s + L_4 s + R_2 R_4 g_m + R_4\right)}$ 10.58 INVALID-ORDER-58 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $H(s) = \frac{L_4 R_4 s \left(-C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_4 C_5 L_4 R_2 R_4 R_5 g^3 + C_4 L_4 R_2 R_4 R_5 g_m s^2 + C_4 L_4 R_2 R_4 g^2 + C_4 L_4 R_4 R_5 s^2 + C_5 L_4 R_2 R_4 R_5 s^2 + 2 C_5 L_4 R_4 R_5 s^2 + C_5 R_2 R_4 R_5 s^2 + L_4 R_2 R_4 g_m s +$

```
10.59 INVALID-ORDER-59 Z(s) = \left(\infty, R_2, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
  10.60 INVALID-ORDER-60 Z(s) = \left(\infty, R_2, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
 H(s) = \frac{L_4 R_4 s \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_4 C_5 L_4 L_5 R_2 g_m s^4 + C_4 C_5 L_4 L_5 R_4 s^4 + C_4 C_5 L_4 R_2 R_4 s^3 + C_4 L_4 R_2 R_4 g_m s^2 + C_5 L_4 L_5 R_2 g_m s^3 + C_5 L_4 L_5 s^3 + C_5 L_4 R_2 s^2 + 2 C_5 L_4 R_4 s^2 + C_5 L_5 R_4 s^2 + C_5 R_2 R_4 s + L_4 R_2 g_m s + L_4 s + R_2 R_4 g_m + R_4\right)}
10.61 INVALID-ORDER-61 Z(s) = \left(\infty, R_2, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
             10.62 INVALID-ORDER-62 Z(s) = \left(\infty, R_2, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                            L_4R_4s\left(C_5L_5R_2g_ms^2+C_5L_5s^2+C_5R_2R_5g_ms-C_5R_2s+C_5R_5s+R_2g_m+1\right)
H(s) = \frac{L_4 R_4 s \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 s_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{2 \left(C_4 C_5 L_4 L_5 R_2 R_4 g_m s^4 + C_4 C_5 L_4 R_2 R_4 g_m s^3 + C_4 L_4 R_2 R_4 g_m s^2 + C_5 L_4 R_5 g_m s^2 + C_5 L_4 R_
10.63 INVALID-ORDER-63 Z(s) = \left(\infty, R_2, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                            L_4R_4s\left(-C_5L_5R_2R_5s^2+L_5R_2R_5g_ms-L_5R_2s+L_5R_5s-R_2R_5\right)
```

10.64 INVALID-ORDER-64
$$Z(s) = \left(\infty, R_2, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{L_5s}{C_5L_5s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{L_4 R_4 s \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m - R_2 R_2 g_m s^2 + C_4 L_4 R_2 R_4 R_5 g_m s^3 + C_4 L_4 R_2 R_4 R_5 g_m s^3 + C_5 L_4 L_5 R_2 R_4 g_m s^3 + C_5 L_4 L_5 R_5 g_m s^3 + C_5 L_5 R_5 g_m$$

10.65 INVALID-ORDER-65
$$Z(s) = \left(\infty, \ R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)$$

10.66 INVALID-ORDER-66
$$Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{\left(-C_5R_2s + R_2g_m + 1\right)\left(C_4L_4R_4s^2 + L_4s + R_4\right)}{2\left(C_4C_5L_4R_2g_ms^3 + C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_4s^3 + C_4L_4R_2g_ms^2 + C_4L_4s^2 + C_5L_4R_2g_ms^2 + 2C_5L_4s^2 + C_5R_2R_4g_ms + C_5R_2s + 2C_5R_4s + R_2g_m + 1\right)}$$

10.67 INVALID-ORDER-67
$$Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

10.68 INVALID-ORDER-68 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2\left(C_4C_5L_4R_2R_4g_ms^3 + C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_4s^3 + C_4C_5L_4R_2s^3 + C_4L_4s^2 + C_5L_4R_2g_ms^2 + 2C_5L_4s^2 + C_5R_2R_4g_ms + C_5R_2s + 2C_5R_4s + 2C_5R_5s + 2C_5$ **10.69** INVALID-ORDER-69 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + \frac{1}{C_5s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + C_4C_5L_4L_5s^4 + C_4C_5L_4R_2g_ms^3 + C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_4s^3 + C_4L_4R_2g_ms^2 + C_5L_4R_2g_ms^2 + 2C_5L_4s^2 + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2g_ms^2 + C_5R_2g_ms$ 10.70 INVALID-ORDER-70 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$ $H(s) = -\frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_5L_5R_2s^2 - L_5R_2g_ms - L_5s + R_2\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + C_4C_5L_4L_5R_2s^4 + 2C_4C_5L_4L_5R_3s^4 + C_4L_4L_5s^3 + C_4L_4R_2s^2 + 2C_4L_4R_4s^2 + C_5L_4L_5R_2g_ms^3 + 2C_5L_4L_5s^3 + C_5L_5R_2s^2 + 2C_5L_5R_4s^2 + L_4R_2g_ms + 2L_4s + L_5R_2g_ms + L_5s + L_5R_2g_ms^3 + 2C_5L_4R_3s^3 + C_5L_5R_2s^3 + C_5L_5R_2s$ 10.71 INVALID-ORDER-71 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2\left(C_4C_5L_4L_5R_2g_ms^4 + C_4C_5L_4R_2S^3 + C_4C_5L_4R_2S^3 + 2C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_2s^3 + C_4L_4S^2 + C_5L_4S^2 + C_5L_4S^2 + C_5L_5S^2 + C_5R_2R_4g_ms^2 + C_5R_4g_ms^2 + C_5R_$ 10.72 INVALID-ORDER-72 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$ $(C_4L_4R_4s^2 + L_4s + R_4)(C_5L_5R_2R_5s^2 - L_5R_2R_5g_ms + L_5R_2s - L_5R_5s)$ $\frac{(C_4L_4R_4s + L_4s + R_4)(C_5L_5R_2R_5s - L_5R_2s_5s - L_5R_2s_5s$ 10.73 INVALID-ORDER-73 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$ $H(s) = \frac{\left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right) \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_4 C_5 L_4 L_5 R_2 R_4 g_m s^4 + C_4 C_5 L_4 L_5 R_2 s^4 + 2 C_4 C_5 L_4 L_5 R_2 s^4 + C_4 C_5 L_4 L_5 R_2 s^4 + C_4 L_4 R_2 R_5 g_m s^3 + C_4 L_4 R_2 R_5 g_m s^2 + C_4 L_4 R_2 s^2 + 2 C_4 L_4 R_4 s^2 + C_4 L_4 R_2 s^2 + 2 C_4 L_4 R_2 s^2 + C_5 L_4 L_5 R_2 g_m s^3 + 2 C_5 L_4 L_5 R_2 s^4 + C_5 L_4 L_5 R_2 s^3 + C_5 L_5 R_2 R_3 s^3 + C_5 L_5 R_3 R_3 s^3 + C_5 L_$ $\left(C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}\right)\left(C_{5}L_{5}R_{2}R_{5}g_{m}s^{2}-C_{5}L_{5}R_{2}s^{2}+C_{5}L_{5}R_{5}s^{2}+L_{5}R_{2}g_{m}s+L_{5}s+R_{2}R_{5}g_{m}-R_{2}+R_{5}\right)$

10.74 INVALID-ORDER-74 $Z(s) = \left(\infty, R_2, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $(C_4L_4R_4s^2 + L_4s + R_4)(C_5L_5R_2R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_5g_ms^2 - C_5$ $H(s) = \frac{(C_4 L_4 L_5 R_2 R_4 g_m s^4 + C_4 C_5 L_4 L_5 R_2 F_3 g_m s^4 + C_4 C_5 L_4 L_5 R_2 s^3 + C_4 L_4 R_2 R_4 g_m s^3 + C_4 L_4 R_$

10.75 INVALID-ORDER-75 $Z(s) = \left(\infty, R_2, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$ $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(-C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_4 C_5 L_4 R_2 g_m s^3 + C_4 C_5 L_4 R_2 s^3 + 2 C_4 C_5 L_4 R_4 s^3 + C_4 C_5 R_2 R_4 s^2 + C_4 L_4 R_2 g_m s^2 + C_4 L_4 s^2 + C_4 R_2 R_4 g_m s + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1\right)}$

10.76 INVALID-ORDER-76 $Z(s) = \left(\infty, R_2, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $\frac{R_4 \left(C_4 L_4 s^2+1\right) \left(C_5 R_2 R_5 s-R_2 R_5 g_m+R_2-R_5\right)}{2 \left(C_4 C_5 L_4 R_2 R_4 R_5 g_m s^3+C_4 C_5 L_4 R_4 R_5 s^3+2 C_4 C_5 L_4 R_4 R_5 s^3+C_4 C_5 R_2 R_4 R_5 s^2+C_4 L_4 R_2 R_5 g_m s^2+C_4 L_4 R_2 s^2+2 C_4 L_4 R_4 s^2+C_4 L_4 R_5 s^2+C_4 L$

```
10.77 INVALID-ORDER-77 Z(s) = \left(\infty, R_2, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{1}{2(C_4C_5L_4R_2R_4g_4s^3 + C_4C_5L_4R_2R_5g_4s^3 + C_5C_5L_4R_2s^3 + C_5C_5L_4R_5s^3 + C_5C_5L_4R_5s^3 + C_5C_5L_5R_5s^3 + C
```

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1 \right)}{2 \left(C_4 C_5 L_4 R_2 R_4 g_m s^3 + C_4 C_5 L_4 R_2 s^3 + 2 C_4 C_5 L_4 R_4 s^3 + C_4 C_5 L_4 R_5 s^3 + C_4 C_5 R_2 R_4 R_5 g_m s^2 + C_4 C_5 R_2 R_4 g_m s^2 + C_4 L_4 R_2 g_m s^2 + C_4 L_4 R_2 g_m s^2 + C_4 L_4 R_2 g_m s^2 + C_4 R_2 R_4 g_m s + C_5 R_2 R_4 g_m s + C$

10.78 INVALID-ORDER-78 $Z(s) = \left(\infty, \ R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$

10.79 INVALID-ORDER-79 $Z(s) = \left(\infty, \ R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$

 $H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 R_2 s^2 - L_5 R_2 g_m s - L_5 s + R_2\right)}{2 \left(C_4 C_5 L_4 L_5 R_2 g_m s^4 + C_4 C_5 L_4 L_5 R_2 s^4 + 2 C_4 C_5 L_4 L_5 R_2 s^3 + C_4 L_4 L_5 R_2 g_m s^3 + C_4 L_4 R_2 s^2 + 2 C_4 L_4 R_4 s^2 + C_4 L_5 R_2 R_4 g_m s^2 + C_4 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + L_5 R_2 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_5 R_5 s^2 + 2 C_5 L_5 R_5 R$

10.80 INVALID-ORDER-80 $Z(s) = \left(\infty, \ R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1 \right)}{2 \left(C_4 C_5 L_4 L_5 R_2 g_m s^4 + C_4 C_5 L_4 L_5 s^4 + C_4 C_5 L_4 R_2 R_5 g_m s^3 + C_4 C_5 L_4 R_2 s^3 + 2 C_4 C_5 L_4 R_2 s^3 + 2 C_4 C_5 L_4 R_2 s^3 + C_4 C_5 L_4 R_2$

10.81 INVALID-ORDER-81 $Z(s) = \left(\infty, \ R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$

 $\frac{R_4 \left(C_4 L_4 s^2+1\right) \left(C_5 L_5 R_2 R_5 s^2-L_5 R_2 R_5 g_m s+L_5 R_2 s-L_5 R_5 s+R_2 g_m s+L_5 R_2 s-L_5 R_5 g_m s+L_5 R_2 s-L_5 R_5 s+R_2 g_m s+L_5 R_2 g_m s+L_5 R_$

10.82 INVALID-ORDER-82 $Z(s) = \left(\infty, \ R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + L_5 R_2 g_m s^2 + C_4 L_4 R_2 R_2 g_m s^3 + C_4 L_4 L_5 R_2 g_m s^3 + C_4 L_4 R_2 R_5 g_m s^2 + C_4 L_4 R_5 R_5 g_m s^2 + C_4 L_5 R_5$

10.83 INVALID-ORDER-83 $Z(s) = \left(\infty, R_2, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 R_4 g_m s^3 + C_4 C_5 L_4 L_5 R_2 R_4 g_m s^4 + C_4 C_5 L_4 L_5 R_2 R_4 g_m s^4 + C_4 C_5 L_4 L_5 R_2 R_4 g_m s^3 + C_4 C_5 L_4 R_2 R_4 g_m s^3 + C_4 C_5 L_4 R_2 R_4 g_m s^3 + C_4 C_5 L_4 R_2 R_4 g_m s^3 + C_4 C_5 L_5 R_4 g_m s^3 + C_4 C_5 L_5 R_5 g_m s^3 + C_5 L_5 R_5 g_$

10.84 INVALID-ORDER-84 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, R_5, \infty\right)$

$$H(s) = \frac{R_4 (C_2 R_5 s + R_5 g_m - 1)}{2 (2C_2 R_4 s + C_2 R_5 s + R_4 g_m + R_5 g_m + 1)}$$

10.85 INVALID-ORDER-85 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_5 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

10.86 INVALID-ORDER-86 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{2 \left(2 C_2 C_5 L_5 R_4 s^3 + C_2 L_5 s^2 + 2 C_2 R_4 s + C_5 L_5 R_4 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + R_4 g_m + 1 \right)}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_5 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_4 g_m s + C_5 R_5 g_m s + C_5 s + g_m \right)}$$

10.88 INVALID-ORDER-88 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 L_5 R_5 s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{2 \left(2 C_2 C_5 L_5 R_4 R_5 s^3 + 2 C_2 L_5 R_4 s^2 + C_2 L_5 R_5 s^2 + 2 C_2 R_4 R_5 s + C_5 L_5 R_4 R_5 g_m s^2 + C_5 L_5 R_5 s^2 + L_5 R_4 g_m s + L_5 R_5 g_m s + L_5 s + R_4 R_5 g_m + R_5\right)}$$

10.89 INVALID-ORDER-89 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 \left(2 C_2 C_5 L_5 R_4 s^3 + C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_5 L_5 R_4 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + R_4 g_m + R_5 g_m + 1 \right)}$$

10.90 INVALID-ORDER-90 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1 \right)}{2 \left(2 C_2 C_5 L_5 R_4 s^3 + C_2 C_5 L_5 R_5 s^3 + 2 C_2 C_5 R_4 R_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_5 L_5 R_4 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_4 R_5 g_m s + C_5 R_5 s + R_4 g_m + R_5 g_m + 1 \right)}$$

10.91 INVALID-ORDER-91 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2s - C_5s + g_m}{2s\left(C_2C_4s + 2C_2C_5s + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.92 INVALID-ORDER-92 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5R_5s^2 + C_2s + C_5R_5g_ms - C_5s + g_m}{2s\left(C_2C_4C_5R_5s^2 + C_2C_4s + 2C_2C_5s + C_4C_5R_5g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_5s^3 + C_2s + C_5L_5g_ms^2 - C_5s + g_m}{2s\left(C_2C_4C_5L_5s^3 + C_2C_4s + 2C_2C_5s + C_4C_5L_5g_ms^2 + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.94 INVALID-ORDER-94 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{C_2L_5s^2 - C_5L_5s^2 + L_5g_ms - 1}{2\left(C_2C_4L_5s^3 + 2C_2C_5L_5s^3 + 2C_2s + C_4C_5L_5s^3 + C_4L_5g_ms^2 + C_4s + C_5L_5g_ms^2 + g_m\right)}$$

10.95 INVALID-ORDER-95
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m}{2s\left(C_2C_4C_5L_5s^3 + C_2C_4C_5R_5s^2 + C_2C_4s + 2C_2C_5s + C_4C_5L_5g_ms^2 + C_4C_5R_5g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.96 INVALID-ORDER-96
$$Z(s) = \left(\infty, \ \frac{1}{C_2 s}, \ \infty, \ \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$$

$$H(s) = \frac{C_2L_5R_5s^2 - C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5}{2\left(C_2C_4L_5R_5s^3 + 2C_2C_5L_5R_5s^3 + 2C_2L_5s^2 + 2C_2R_5s + C_4C_5L_5R_5s^3 + C_4L_5R_5g_ms^2 + C_4L_5s^2 + C_4R_5s + C_5L_5R_5g_ms^2 + L_5g_ms + R_5g_m\right)}$$

10.97 INVALID-ORDER-97
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_5s^3 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1}{2\left(C_2C_4C_5L_5R_5s^4 + C_2C_4L_5s^3 + C_2C_4R_5s^2 + 2C_2C_5L_5s^3 + 2C_2s + C_4C_5L_5R_5g_ms^3 + C_4C_5L_5s^3 + C_4L_5g_ms^2 + C_4R_5g_ms + C_4s + C_5L_5g_ms^2 + g_m\right)}$$

10.98 INVALID-ORDER-98
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_5s^3 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1}{2\left(C_2C_4C_5L_5R_5s^4 + C_2C_4R_5s^2 + 2C_2C_5L_5s^3 + 2C_2C_5R_5s^2 + 2C_2s + C_4C_5L_5R_5g_ms^3 + C_4C_5L_5s^3 + C_4C_5R_5s^2 + C_4R_5g_ms + C_4s + C_5L_5g_ms^2 + C_5R_5g_ms + g_m\right)}$$

10.99 INVALID-ORDER-99
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_4 C_5 R_4 R_5 s^3 + C_2 C_4 R_4 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_5 s^2 + C_2 s + C_4 C_5 R_4 R_5 g_m s^2 + C_4 C_5 R_4 s^2 + C_4 R_4 g_m s + C_5 R_5 g_m s + C_5 s + g_m \right)}$$

10.100 INVALID-ORDER-100
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 \left(C_2 C_4 C_5 L_5 R_4 s^4 + C_2 C_4 R_4 s^2 + C_2 C_5 L_5 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 s + C_4 C_5 L_5 R_4 g_m s^3 + C_4 C_5 R_4 s^2 + C_4 R_4 g_m s + C_5 L_5 g_m s^2 + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

10.101 INVALID-ORDER-101
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{2 \left(C_2 C_4 L_5 R_4 s^3 + 2 C_2 C_5 L_5 R_4 s^3 + C_2 L_5 s^2 + 2 C_2 R_4 s + C_4 C_5 L_5 R_4 s^3 + C_4 L_5 R_4 g_m s^2 + C_4 R_4 s + C_5 L_5 R_4 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + R_4 g_m + 1 \right)}$$

10.102 INVALID-ORDER-102
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_4 C_5 L_5 R_4 s^4 + C_2 C_4 C_5 R_4 R_5 s^3 + C_2 C_4 R_4 s^2 + C_2 C_5 L_5 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 S_5 R_4 s^2 + C_2 S_5 R_4 S_2 r^3 + C_4 C_5 R_4 R_5 g_m s^2 + C_4 C_5 R_4 g_m s + C_5 L_5 g_m s^2 + C_5 R_4 g_m s + C_5 R_5 g_m s + C_5 R$$

10.103 INVALID-ORDER-103
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_5 R_5 s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5 \right)}{2 \left(C_2 C_4 L_5 R_4 R_5 s^3 + 2 C_2 C_5 L_5 R_4 R_5 s^3 + 2 C_2 L_5 R_4 s^2 + C_2 L_5 R_5 s^2 + 2 C_2 R_4 R_5 s + C_4 C_5 L_5 R_4 R_5 g_m s^2 + C_4 L_5 R_4 g_m s^2 + C_5 L_5 R_4 R_5 g_m s^2 + C_5 L_5 R_5 g_m s + L_5$$

10.104 INVALID-ORDER-104 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 C_5 L_5 R_4 s^3 + C_2 C_4 L_5 R_4 s^3 + C_2 C_5 L_5 R_4 s^3 + C_2 L_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_4 C_5 L_5 R_4 R_5 g_m s^3 + C_4 C_5 L_5 R_4 g_m s^2 + C_4 R_4 R_5 g_m s + C_4 R_4 s + C_5 L_5 R_4 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 g_m s$

10.105 INVALID-ORDER-105 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 C_5 L_5 R_4 R_5 s^4 + C_2 C_4 R_4 R_5 s^2 + 2 C_2 C_5 L_5 R_4 s^3 + C_2 C_5 L_5 R_4 s^3 + C_4 C_5 L_5 R_4 R_5 g_m s^3 + C_4 C_5 L_5 R_4 R_5 g_m s + C_4 R_4 R_5 g_m s + C_4 R_4 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 R_5 g$

10.106 INVALID-ORDER-106 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 s - C_5 s + g_m\right)}{2s \left(2C_2 C_4 C_5 R_4 s^2 + C_2 C_4 s + 2C_2 C_5 s + C_4 C_5 R_4 g_m s + C_4 C_5 s + C_4 g_m + C_5 g_m\right)}$$

10.107 INVALID-ORDER-107 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{2 \left(2 C_2 C_4 C_5 R_4 R_5 s^3 + 2 C_2 C_4 R_4 s^2 + C_2 C_4 R_5 s^2 + 2 C_2 C_5 R_5 s^2 + 2 C_2 s + C_4 C_5 R_4 R_5 g_m s^2 + C_4 C_5 R_5 s^2 + C_4 R_4 g_m s + C_4 R_5 g_m s + C_4 s + C_5 R_5 g_m s + g_m\right)}$$

10.108 INVALID-ORDER-108 $Z(s) = \left(\infty, \ \frac{1}{C_2 s}, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 s \left(2 C_2 C_4 C_5 R_4 s^2 + C_2 C_4 C_5 R_5 s^2 + C_2 C_4 s + 2 C_2 C_5 s + C_4 C_5 R_4 q_m s + C_4 C_5 R_5 q_m s + C_5 R_5 q_m s +$$

10.109 INVALID-ORDER-109 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{2 s \left(C_2 C_4 C_5 L_5 s^3 + 2 C_2 C_4 C_5 R_4 s^2 + C_2 C_4 s + 2 C_2 C_5 s + C_4 C_5 L_5 g_m s^2 + C_4 C_5 R_4 g_m s + C_4 C_5 s + C_4 g_m + C_5 g_m\right)}$$

10.110 INVALID-ORDER-110 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{2 \left(2 C_2 C_4 C_5 L_5 R_4 s^4 + C_2 C_4 L_5 s^3 + 2 C_2 C_4 R_4 s^2 + 2 C_2 C_5 L_5 s^3 + 2 C_2 s + C_4 C_5 L_5 R_4 g_m s^3 + C_4 C_5 L_5 s^3 + C_4 L_5 g_m s^2 + C_4 R_4 g_m s + C_4 s + C_5 L_5 g_m s^2 + g_m\right)}$$

10.111 INVALID-ORDER-111 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 s \left(C_2 C_4 C_5 L_5 s^3 + 2 C_2 C_4 C_5 R_4 s^2 + C_2 C_4 C_5 R_5 s^2 + C_2 C_4 s + 2 C_2 C_5 s + C_4 C_5 L_5 g_m s^2 + C_4 C_5 R_4 g_m s + C_4 C_5 R_5 g_m s + C_5 R_5 g_m$$

10.112 INVALID-ORDER-112 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = -\frac{\left(C_4R_4s + 1\right)\left(-C_2L_5R_5s^2 + C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5\right)}{2\left(2C_2C_4C_5L_5R_4R_5s^4 + 2C_2C_4L_5R_4s^3 + C_2C_4L_5R_5s^3 + 2C_2C_5L_5R_5s^3 + 2C_2L_5s^2 + 2C_2R_5s + C_4C_5L_5R_4g_ms^3 + C_4C_5L_5R_4g_ms^2 + C_4L_5R_5g_ms^2 + C_4L_5s^2 + C_4R_4R_5g_ms + C_4R_5s + C_5L_5R_5g_ms^2 + C_4L_5R_5g_ms^3 + C_4C_5L_5R_5g_ms^3 + C_4C_5L_5R_5g_ms$$

10.113 INVALID-ORDER-113
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_5R_5s^3 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{2\left(2C_2C_4C_5L_5R_4s^4 + C_2C_4C_5L_5R_5s^4 + C_2C_4L_5s^3 + 2C_2C_4R_4s^2 + C_2C_5L_5s^3 + 2C_2s + C_4C_5L_5R_4g_ms^3 + C_4C_5L_5R_5g_ms^3 + C_4C_5L_5g_ms^2 + C_4R_4g_ms + C_4R_5g_ms + C_4s + C_5L_5g_ms^2 + g_m\right)}$$

10.114 INVALID-ORDER-114
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_5R_5s^3 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{2\left(2C_2C_4C_5L_5R_4s^4 + C_2C_4C_5L_5R_4s^4 + C_2C_4C_5L_5s^3 + 2C_2C_4R_4s^2 + C_2C_4R_5s^2 + 2C_2S + C_4C_5L_5R_4g_ms^3 + C_4C_5L_5R_4g_ms^3 + C_4C_5L_5R_4g_ms^3 + C_4C_5L_5R_5g_ms^2 + C_4C_5R_4g_ms^2 + C_4C_5R_4g_ms + C_4R_5g_ms + C_4S_5g_ms^2 + C_5S_5g_ms^3 + C_4S_5g_ms^3 + C_4S_5g$$

10.115 INVALID-ORDER-115
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(2 C_2 C_4 L_4 s^3 + C_2 C_4 R_5 s^2 + 2 C_2 s + C_4 L_4 g_m s^2 + C_4 R_5 g_m s + C_4 s + g_m\right)}$$

10.116 INVALID-ORDER-116
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_2 s - C_5 s + g_m\right)}{2s \left(2C_2 C_4 C_5 L_4 s^3 + C_2 C_4 s + 2C_2 C_5 s + C_4 C_5 L_4 g_m s^2 + C_4 C_5 s + C_4 g_m + C_5 g_m\right)}$$

10.117 INVALID-ORDER-117
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{2 \left(2 C_2 C_4 C_5 L_4 R_5 s^4 + 2 C_2 C_4 L_4 s^3 + C_2 C_4 R_5 s^2 + 2 C_2 C_5 R_5 s^2 + 2 C_2 s + C_4 C_5 L_4 R_5 q_m s^3 + C_4 C_5 R_5 s^2 + C_4 L_4 q_m s^2 + C_4 R_5 q_m s + C_4 s + C_5 R_5 q_m s + q_m\right)}$$

10.118 INVALID-ORDER-118
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 s \left(2 C_2 C_4 C_5 L_4 s^3 + C_2 C_4 C_5 R_5 s^2 + C_2 C_4 s + 2 C_2 C_5 s + C_4 C_5 L_4 g_m s^2 + C_4 C_5 R_5 g_m s + C_4 C_5 s + C_4 g_m + C_5 g_m\right)}$$

10.119 INVALID-ORDER-119
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{2 s \left(2 C_2 C_4 C_5 L_4 s^3 + C_2 C_4 C_5 L_5 s^3 + C_2 C_4 s + 2 C_2 C_5 s + C_4 C_5 L_4 g_m s^2 + C_4 C_5 L_5 g_m s^2 + C_5 L_5 g_m$$

10.120 INVALID-ORDER-120
$$Z(s) = \left(\infty, \ \frac{1}{C_2 s}, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2L_5s^2 - C_5L_5s^2 + L_5g_ms - 1\right)}{2\left(2C_2C_4C_5L_4L_5s^5 + 2C_2C_4L_4s^3 + C_2C_4L_5s^3 + 2C_2S_5L_5s^3 + 2C_2S_5L_5S_5 + C_4C_5L_4L_5g_ms^4 + C_4C_5L_5s^3 + C_4L_4g_ms^2 + C_4L_5g_ms^2 + C_4s + C_5L_5g_ms^2 + q_m\right)}$$

10.121 INVALID-ORDER-121
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 s \left(2 C_2 C_4 C_5 L_4 s^3 + C_2 C_4 C_5 L_5 s^3 + C_2 C_4 C_5 R_5 s^2 + C_2 C_4 s + 2 C_2 C_5 s + C_4 C_5 L_4 g_m s^2 + C_4 C_5 L_5 g_m s^2 + C_4 C_5 R_5 g_m s + C_4 C_5 s + C_4 g_m + C_5 g_m\right)}$$

10.122 INVALID-ORDER-122 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(-C_2L_5R_5s^2 + C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5\right)}{2\left(2C_2C_4C_5L_4L_5R_5s^5 + 2C_2C_4L_4L_5s^4 + 2C_2C_4L_4R_5s^3 + C_2C_4L_5R_5s^3 + 2C_2L_5s^2 + 2C_2R_5s + C_4C_5L_4L_5R_5g_ms^4 + C_4C_5L_5R_5g_ms^3 + C_4L_4R_5g_ms^3 + C_4L_4R_5g_ms^2 + C_4L_5s^2 + C_4R_5s + C_5L_5R_5g_ms^2 + L_5g_ms + R_5g_m\right)}$

10.123 INVALID-ORDER-123 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_5s^3 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{2\left(2C_2C_4C_5L_4L_5s^5 + C_2C_4C_5L_5S^4 + 2C_2C_4L_4s^3 + C_2C_4L_5s^3 + C_2C_4R_5s^2 + 2C_2S_5S^3 + 2C_2s + C_4C_5L_4L_5g_ms^4 + C_4C_5L_5R_5g_ms^3 + C_4C_5L_5s^3 + C_4L_4g_ms^2 + C_4L_5g_ms^2 + C_4R_5g_ms + C_4s + C_5L_5g_ms^2 + g_m\right)}$

10.124 INVALID-ORDER-124 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_5s^3 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{2\left(2C_2C_4C_5L_4L_5s^5 + 2C_2C_4C_5L_4R_5s^4 + C_2C_4C_5L_5R_5s^4 + 2C_2C_4L_4s^3 + C_2C_4R_5s^2 + 2C_2C_5R_5s^2 + 2C_2s + C_4C_5L_4R_5g_ms^3 + C_4C_5L_5R_5g_ms^3 + C_4C_5L_5s^3 +$

10.125 INVALID-ORDER-125 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$

$$H(s) = \frac{L_4 s \left(C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_4 R_5 s^3 + 2 C_2 L_4 s^2 + C_2 R_5 s + C_4 L_4 R_5 g_m s^2 + C_4 L_4 s^2 + L_4 g_m s + R_5 g_m + 1\right)}$$

10.126 INVALID-ORDER-126 $Z(s) = \left(\infty, \ \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{L_4s \left(C_2s - C_5s + g_m\right)}{2 \left(C_2C_4L_4s^3 + 2C_2C_5L_4s^3 + C_2s + C_4C_5L_4s^3 + C_4L_4g_ms^2 + C_5L_4g_ms^2 + C_5s + g_m\right)}$$

10.127 INVALID-ORDER-127 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{L_4 s \left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_4 R_5 s^3 + 2 C_2 C_5 L_4 R_5 s^3 + 2 C_2 L_4 s^2 + C_2 R_5 s + C_4 C_5 L_4 R_5 s^3 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 s^2 + C_5 L_4 R_5 g_m s^2 + C_5 R_5 s + L_4 g_m s + R_5 g_m + 1\right)}$$

10.128 INVALID-ORDER-128 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_4 s \left(C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 \left(C_2 C_4 C_5 L_4 R_5 s^4 + C_2 C_4 L_4 s^3 + 2 C_2 C_5 L_4 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_4 s^3 + C_4 L_4 g_m s^2 + C_5 L_4 g_m s^2 + C_5 R_5 g_m s + C_5 s + g_m\right)}$$

10.129 INVALID-ORDER-129 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_4s\left(C_2C_5L_5s^3 + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2\left(C_2C_4C_5L_4L_5s^5 + C_2C_4L_4s^3 + 2C_2C_5L_4s^3 + C_2S + C_4C_5L_4L_5g_ms^4 + C_4C_5L_4s^3 + C_4L_4g_ms^2 + C_5L_4g_ms^2 + C_5L_5g_ms^2 + C_5s + g_m\right)}$$

10.130 INVALID-ORDER-130 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_4 s \left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{2 \left(C_2 C_4 L_4 L_5 s^4 + 2 C_2 C_5 L_4 L_5 s^4 + 2 C_2 L_4 s^2 + C_2 L_5 s^2 + C_4 C_5 L_4 L_5 s^4 + C_4 L_4 L_5 g_m s^3 + C_4 L_4 s^2 + C_5 L_4 L_5 g_m s^3 + C_5 L_5 s^2 + L_4 g_m s + L_5 g_m s + 1\right)}$$

10.131 INVALID-ORDER-131
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4s\left(C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{2\left(C_2C_4C_5L_4L_5s^5 + C_2C_4C_5L_4R_5s^4 + C_2C_4L_4s^3 + 2C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2s + C_4C_5L_4L_5g_ms^4 + C_4C_5L_4R_5g_ms^3 + C_4L_4g_ms^2 + C_5L_4g_ms^2 + C_5L_5g_ms + C_5s + g_m\right)}$$

10.132 INVALID-ORDER-132
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{L_{4}s\left(C_{2}L_{5}R_{5}s^{2} - C_{5}L_{5}R_{5}s^{2} + L_{5}R_{5}g_{m}s - L_{5}s - R_{5}\right)}{2\left(C_{2}C_{4}L_{4}L_{5}R_{5}s^{4} + 2C_{2}L_{4}L_{5}s^{3} + 2C_{2}L_{4}R_{5}s^{2} + C_{2}L_{5}R_{5}s^{2} + C_{4}C_{5}L_{4}L_{5}R_{5}g_{m}s^{3} + C_{4}L_{4}L_{5}R_{5}g_{m}s^{3} + C_{5}L_{4}L_{5}R_{5}g_{m}s^{3} + C_{5}L_{4}L_{5}R_{5}g_{m}s^{3} + C_{5}L_{5}R_{5}s^{2} + L_{4}L_{5}g_{m}s^{2} + L_{4}R_{5}g_{m}s + L_{5}R_{5}g_{m}s + L$$

10.133 INVALID-ORDER-133
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{L_4 s \left(C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 C_5 L_4 L_5 s^4 + C_2 C_4 L_4 R_5 s^3 + 2 C_2 C_5 L_4 L_5 s^4 + C_2 C_5 L_5 R_5 s^3 + 2 C_2 L_4 s^2 + C_2 L_5 s^2 + C_2 R_5 s + C_4 C_5 L_4 L_5 g_m s^4 + C_4 C_5 L_4 L_5 g_m s^3 + C_4 L_4 R_5 g_m s^3 + C_5 L_5 R_5 g_m s^2 + C_5 L_5$$

10.134 INVALID-ORDER-134
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{5}R_{5}s^{3} + C_{2}R_{5}s + C_{5}L_{5}R_{5}g_{m}s^{2} - C_{5}L_{5}s^{2} - C_{5}R_{5}s + R_{5}g_{m} - 1\right)}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}s^{3} + 2C_{2}C_{5}L_{4}L_{5}s^{4} + 2C_{2}C_{5}L_{4}R_{5}s^{3} + 2C_{2}L_{4}S^{2} + C_{2}R_{5}s + C_{4}C_{5}L_{4}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{4}L_{5}g_{m}s^{2} + C_{5}L_{4}g_{m}s^{3} + C_{5}L_{4}g_{m}s^{2} + C_{5}L_{5}g_{m}s^{2} + C_{5}L_{5}g_$$

10.135 INVALID-ORDER-135
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{\left(C_2R_5s + R_5g_m - 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)}{2\left(2C_2C_4L_4s^3 + 2C_2C_4R_4s^2 + C_2C_4R_5s^2 + 2C_2s + C_4L_4g_ms^2 + C_4R_4g_ms + C_4R_5g_ms + C_4s + g_m\right)}$$

10.136 INVALID-ORDER-136
$$Z(s) = \left(\infty, \frac{1}{C_{2s}}, \infty, L_4 s + R_4 + \frac{1}{C_{4s}}, \frac{1}{C_{5s}}, \infty\right)$$

$$H(s) = \frac{\left(C_{2}s - C_{5}s + g_{m}\right)\left(C_{4}L_{4}s^{2} + C_{4}R_{4}s + 1\right)}{2s\left(2C_{2}C_{4}C_{5}L_{4}s^{3} + 2C_{2}C_{4}C_{5}R_{4}s^{2} + C_{2}C_{4}s + 2C_{2}C_{5}s + C_{4}C_{5}L_{4}g_{m}s^{2} + C_{4}C_{5}R_{4}g_{m}s + C_{4}C_{5}s + C_{4}g_{m} + C_{5}g_{m}\right)}$$

10.137 INVALID-ORDER-137
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2R_5s - C_5R_5s + R_5g_m - 1\right)}{2\left(2C_2C_4C_5L_4R_5s^4 + 2C_2C_4C_5R_4R_5s^3 + 2C_2C_4L_4s^3 + 2C_2C_4R_4s^2 + C_2C_4R_5s^2 + 2C_2S + C_4C_5L_4R_5g_ms^3 + C_4C_5R_4R_5g_ms^2 + C_4C_5R_5s^2 + C_4L_4g_ms^2 + C_4R_4g_ms + C_4R_5g_ms + C_4s + C_5R_5g_ms + g_m\right)}$$

10.138 INVALID-ORDER-138
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5R_5s^2 + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(2C_2C_4C_5L_4s^3 + 2C_2C_4C_5R_4s^2 + C_2C_4C_5R_5s^2 + C_2C_4s + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5R_4g_ms + C_4C_5R_5g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.139 INVALID-ORDER-139
$$Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5s^3 + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(2C_2C_4C_5L_4s^3 + C_2C_4C_5L_5s^3 + 2C_2C_4C_5R_4s^2 + C_2C_4s + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5L_5g_ms^2 + C_4C_5R_4g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.140 INVALID-ORDER-140 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2L_5s^2 - C_5L_5s^2 + L_5g_ms - 1\right)}{2\left(2C_2C_4C_5L_4L_5s^5 + 2C_2C_4C_5L_5R_4s^4 + 2C_2C_4L_4s^3 + C_2C_4L_5s^3 + 2C_2C_4R_4s^2 + 2C_2C_5L_5s^3 + 2C_2s + C_4C_5L_4L_5g_ms^4 + C_4C_5L_5R_4g_ms^3 + C_4C_5L_5g_ms^2 + C_4L_5g_ms^2 + C_4R_4g_ms + C_4s + C_5L_5g_ms^2 + g_m\right)}$ 10.141 INVALID-ORDER-141 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(2C_2C_4C_5L_4s^3 + C_2C_4C_5L_5s^3 + 2C_2C_4C_5R_5s^2 + C_2C_4s + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5R_4g_ms + C_4C_5R_5g_ms + C_4C$ 10.142 INVALID-ORDER-142 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$ $(C_4L_4s^2 + C_4R_4s + 1)(-C_2L_5R_5s^2 + C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5)$ $\frac{\left(C_4L_4S^2+C_4R_4S+1\right)\left(-C_2L_5R_5S^2-L_5R_5S^2-L_5R_5S^2-L_5R_5S^3+L_5S+R_5\right)}{2\left(2C_2C_4C_5L_4L_5R_5S^5+2C_2C_4L_4L_5S^4+2C_2C_4L_4R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_2C_4L_5R_5S^3+2C_4L_4L_5S^3+2C_4L_5L_5S^3+2C_4L_5L_5S^3+2C_4L_5L_5S^3+2C_4L_5L_5S^3+2C_4L_5L_5S^3+2C_4L_5L_5S^3+2C_4L_5L_5S^3+2C_4L_5L_5S^3+2C_4L_$ 10.143 INVALID-ORDER-143 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5R_5s^3 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{2\left(2C_2C_4C_5L_4L_5s^5 + 2C_2C_4C_5L_5R_4s^4 + C_2C_4C_5L_5R_5s^4 + 2C_2C_4L_4s^3 + C_2C_4L_5s^3 + 2C_2C_4R_5s^2 + 2C_2C_5L_5s^3 + 2C_2s + C_4C_5L_4L_5g_ms^3 + C_4C_5L_5R_4g_ms^3 + C_4C_5L_5R_5g_ms^3 + C_4C_5L_5g_ms^3 +$ 10.144 INVALID-ORDER-144 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5R_5s^3 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{2\left(2C_2C_4C_5L_4L_5s^5 + 2C_2C_4C_5L_4R_5s^4 + 2C_2C_4C_5L_5R_5s^4 + 2C_2C_4C_5L_5R_5s^3 + 2C_2C_4R_4s^2 + C_2C_4R_5s^2 + 2C_2C_5L_5s^3 + 2C_2C_5L_5s^3 + 2C_2C_5L_5s^3 + 2C_2C_5L_5s^3 + 2C_2C_4C_5L_4R_5g_ms^3 + C_4C_5L_5R_5g_ms^3 + C_4C_5L_5R_5$ 10.145 INVALID-ORDER-145 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$ $H(s) = \frac{L_4 R_4 s \left(C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_4 R_4 S^3 + 2 C_2 L_4 R_4 s^2 + C_2 L_4 R_5 s^2 + C_2 R_4 R_5 s + C_4 L_4 R_4 R_5 g_m s^2 + C_4 L_4 R_4 s^2 + L_4 R_4 g_m s + L_4 R_5 g_m s + L_4 s + R_4 R_5 g_m + R_4\right)}$ 10.146 INVALID-ORDER-146 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{L_4 R_4 s \left(C_2 s - C_5 s + g_m\right)}{2 \left(C_2 C_4 L_4 R_4 s^3 + 2 C_2 C_5 L_4 R_4 s^3 + C_2 L_4 s^2 + C_2 R_4 s + C_4 C_5 L_4 R_4 s^3 + C_4 L_4 R_4 g_m s^2 + C_5 L_4 R_4 g_m s^2 + C_5 L_4 s^2 + C_5 R_4 s + L_4 g_m s + R_4 g_m\right)}$ 10.147 INVALID-ORDER-147 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $H(s) = \frac{L_4 R_4 s \left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_4 R_4 R_5 s^3 + 2 C_2 C_5 L_4 R_4 R_5 s^3 + 2 C_2 L_4 R_4 s^2 + C_2 L_4 R_5 s^2 + C_2 R_4 R_5 s + C_4 L_4 R_4 R_5 g_m s^2 + C_4 L_4 R_4 g_m s^2 + C_5 L_4 R_5 g_m s^2$ 10.148 INVALID-ORDER-148 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $\frac{L_4R_4s\left(C_2C_5R_5s^2+C_2s+C_5R_5g_ms-C_5s+g_m\right)}{2\left(C_2C_4C_5L_4R_4s^3+2C_2C_5L_4R_4s^3+C_2C_5L_4R_5s^3+C_2C_5R_4R_5s^2+C_2L_4s^2+C_2R_4s+C_4C_5L_4R_4g_ms^3+C_4L_4R_4g_ms^2+C_5L_4R_5g_ms^2+C_5L_5L_5G_ms^2+C_5L_5L_5G_ms^2+C_5L_5L_5G_ms^2+C_5L_5L_5G_ms^2+C_5L_5L_5G_ms^2+C_5L_5L_5G_ms^2+C_5L_5L_5G_m$

32

```
10.149 INVALID-ORDER-149 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                  H(s) = \frac{L_4 R_4 s \left(C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{2 \left(C_2 C_4 C_5 L_4 L_5 R_4 s^5 + C_2 C_4 L_4 R_4 s^3 + C_2 C_5 L_4 R_4 s^3 + C_2 C_5 L_4 R_4 s^3 + C_2 C_5 L_4 R_4 s^3 + C_2 L_4 s^2 + C_2 R_4 s + C_4 C_5 L_4 L_5 R_4 g_m s^4 + C_4 C_5 L_4 R_4 g_m s^2 + C_5 R_5 g_m s^2 + C_5 R_5 g_m s^2 + C_5 R_5 g_m s^2 + 
10.150 INVALID-ORDER-150 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                               H(s) = \frac{L_4 R_4 s \left(C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1\right)}{2 \left(C_2 C_4 L_4 L_5 R_4 s^4 + 2 C_2 C_5 L_4 L_5 R_4 s^4 + C_2 L_4 L_5 s^3 + 2 C_2 L_4 R_4 s^2 + C_2 L_5 R_4 s^2 + C_4 L_5 L_4 L_5 R_4 g_m s^3 + C_4 L_4 R_4 s^2 + C_5 L_4 L_5 R_4 g_m s^3 + C_5 L_5 R_5 g_m s^3 
10.151 INVALID-ORDER-151 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_4 R_4 s \left(C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 \left(C_2 C_4 C_5 L_4 L_5 R_4 s^5 + C_2 C_4 L_4 R_4 s^3 + C_2 C_5 L_4 R_4 s^3 + C_2 C_5 L_4 R_5 s^3 + C_4 C_5 L_4 R_4 R_5 g_m s^3 + C_4 C_5 L_4 R_4 R_5 g_m s^3 + C_4 C_5 L_4 R_4 R_5 g_m s^3 + C_5 L_4 R_4 g_m s^3 + C_5 L_4 R_5 g_m s^3 + C_5 L_5 R_4 g_m s^3 + C_5 L_5 R_4 g_m s^3 + C_5 L_5 R_5 g_m s^3 + C_
10.152 INVALID-ORDER-152 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.153 INVALID-ORDER-153 Z(s) = \left(\infty, \frac{1}{C_{2}s}, \infty, \frac{L_{4}R_{4}s}{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}, \frac{L_{5}s}{C_{5}L_{5}s^{2} + 1} + R_{5}, \infty\right)
                                   L_{4}R_{4}s\left(C_{2}C_{5}L_{5}R_{5}s^{3} + C_{2}L_{5}s^{2} + C_{2}R_{5}s + C_{5}L_{5}R_{5}g_{m}s^{2} - C_{5}L_{5}s^{2} + L_{5}g_{m}s + R_{5}g_{m} - 1\right) + C_{5}C_{5}L_{4}L_{5}R_{4}s^{5} + C_{2}C_{5}L_{4}L_{5}R_{4}s^{5} + C_{2}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{4}L_{5}R_{4}s^{5} + C_{2}C_{5}L_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}
10.154 INVALID-ORDER-154 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             L_4R_4s\left(C_2C_5L_5R_5s^3+C_2R_5s+C_5L_5R_5g_ms^2-C_5L_5s^2-C_5R_5s+R_5g_m-1\right)
H(s) = \frac{L_4 R_4 s \left(C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 C_5 L_4 L_5 R_4 R_5 s^3 + 2 C_2 C_5 L_4 L_5 R_4 s^3 + 2 C_2 C_5 L_4 R_4 R_5 s^3 + 2 C_2 L_4 R_4 s^2 + C_2 L_4 R_5 s^3 + 2 C_2 L_4 R_4 R_5 s^3 + C_4 L_4 R_5 R_5 r_4 R_5 
10.155 INVALID-ORDER-155 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)
                                                                                                                                                                                                                                                               H(s) = \frac{\left(C_2R_5s + R_5g_m - 1\right)\left(C_4L_4R_4s^2 + L_4s + R_4\right)}{2\left(2C_2C_4L_4R_4s^3 + C_2C_4L_4R_5s^3 + 2C_2L_4s^2 + 2C_2R_4s + C_2R_5s + C_4L_4R_4g_ms^2 + C_4L_4R_5g_ms^2 + C_4L_4s^2 + L_4g_ms + R_4g_m + R_5g_m + 1\right)}
10.156 INVALID-ORDER-156 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)
```

 $H(s) = \frac{\left(C_2 s - C_5 s + g_m\right) \left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right)}{2 \left(2 C_2 C_4 C_5 L_4 R^4 s^4 + C_2 C_4 L_4 s^3 + 2 C_2 C_5 L_4 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 s + C_4 C_5 L_4 R_4 g_m s^3 + C_4 C_5 L_4 s^3 + C_4 L_4 g_m s^2 + C_5 L_4 g_m s^2 + C_5 R_4 g_m s + C_5 s + g_m\right)}$

```
10.158 INVALID-ORDER-158 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                             H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5R_5s^2 + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2\left(2C_2C_4C_5L_4R_4s^4 + C_2C_4C_5L_4R_5s^4 + C_2C_4L_4s^3 + 2C_2C_5L_4s^3 + 2C_2C_5R_4s^2 + C_2S + C_4C_5L_4R_4g_ms^3 + C_4C_5L_4R_5g_ms^3 + C_4C_5L_4g_ms^2 + C_5L_4g_ms^2 + C_5R_4g_ms + C_5R_5g_ms + C_5s + g_m\right)}
10.159 INVALID-ORDER-159 Z(s) = \left(\infty, \ \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)
                                                                             H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_5s^3 + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2\left(C_2C_4C_5L_4L_5s^5 + 2C_2C_4C_5L_4R_4s^4 + C_2C_4L_4s^3 + 2C_2C_5L_4s^3 + 2C_2C_5R_4s^2 + C_2s + C_4C_5L_4L_5g_ms^4 + C_4C_5L_4R_4g_ms^3 + C_4L_4g_ms^2 + C_5L_4g_ms^2 + C_5L_5g_ms^2 + C_5R_4g_ms + C_5s + g_m\right)}
10.160 INVALID-ORDER-160 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2L_5s^2 - C_5L_5s^2 + L_5g_ms - 1\right)}{2\left(2C_2C_4C_5L_4L_5s^4 + 2C_2C_4L_4R_4s^3 + 2C_2C_5L_4L_5s^4 + 2C_2C_5L_5R_4s^3 + 2C_2L_4s^2 + C_2L_5s^2 + 2C_2R_4s + C_4C_5L_4L_5g_ms^3 + C_4L_4R_4g_ms^2 + C_4L_4s^2 + C_5L_4L_5g_ms^3 + C_5L_5R_4g_ms^2 + C_5L_5s^2 + L_4g_ms + L_5g_ms^3 + C_4L_4R_4g_ms^2 + C_4L_4s^2 + C_5L_4s^2 + C_5L_5s^2 + L_4g_ms + L_5g_ms^3 + C_4L_4s^2 + C_5L_4s^2 + C_5L_5s^2 + L_5g_ms^3 + C_5L_5s^2 + L_5g_ms^3 + C_5L_5g_ms^3 + C_5
10.161 INVALID-ORDER-161 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{2\left(C_2C_4C_5L_4L_5s^5 + 2C_2C_4C_5L_4R_4s^4 + C_2C_4C_5L_4s^3 + 2C_2C_5L_4s^3 + 2C_2C_5R_4s^2 + C_2C_5R_5s^2 + C_2s + C_4C_5L_4R_5g_ms^4 + C_4C_5L_4R_5g_ms^3 + C_4C_5L_4s^3 + C_4L_4g_ms^2 + C_5L_5g_ms^2 + C_5R_5g_ms^2 + C_5R_5g_ms^2 + C_5R_5g_ms^2 + C_5R_5g_ms^2 + C_5R_5g_ms^3 + C_4C_5L_4R_5g_ms^3 + C_4C_5L_4s^3 + C_4C_5L_4s^3 + C_4C_5L_4s^3 + C_5R_5g_ms^2 + C_5R
10.162 INVALID-ORDER-162 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                      -\frac{\left(C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}\right)\left(-C_{2}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}-L_{5}R_{5}g_{m}s+L_{5}s+R_{5}\right)}{2\left(2C_{2}C_{4}L_{5}L_{4}L_{5}R_{4}s^{5}+2C_{2}C_{4}L_{4}L_{5}R_{5}s^{4}+2C_{2}C_{4}L_{4}L_{5}R_{5}s^{4}+2C_{2}C_{5}L_{4}L_{5}R_{5}s^{4}+2C_{2}C_{5}L_{4}L_{5}R_{5}s^{3}+2C_{2}L_{4}L_{5}s^{3}+2C_{2}L_{4}L_{5}s^{2}+2C_{2}L_{5}R_{5}s^{2}+2C_{2}L_{4}L_{5}R_{5}s^{4}+C_{4}C_{5}L_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^{4}+C_{4}L_{5}R_{5}s^
10.163 INVALID-ORDER-163 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_5R_5s^3 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{2\left(2C_2C_4C_5L_4L_5R_4s^5 + C_2C_4L_4L_5s^4 + 2C_2C_5L_4L_5s^4 + 2C_2C_5L_4L_5s^4 + 2C_2C_5L_5R_4s^3 + C_2C_5L_5R_4s^3 + C_2C_5L_5R_4s^3 + C_2C_5L_4L_5R_4g_ms^4 + C_4C_5L_4L_5R_5g_ms^4 + C_4C_5L_4L_5s^4 + 2C_2C_5L_4R_5s^4 + 2C_2C_5L_5R_4s^3 + C_2C_5L_5R_5s^3 + 2C_2L_4s^2 + C_2L_5s^2 + 2C_2R_4s + C_2R_5s + C_4C_5L_4L_5R_5g_ms^4 + C_4C_5L_4L_5s^4 + C_4C_5L_4L_5s
10.164 INVALID-ORDER-164 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.165 INVALID-ORDER-165 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)
                                                                                                                                                                                                   H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(2 C_2 C_4 L_4 R_4 s^3 + C_2 C_4 L_4 R_5 s^3 + C_2 C_4 R_4 R_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_4 L_4 R_4 g_m s^2 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 R_5 g_m s + C_4 R_4 s + R_4 g_m + R_5 g_m + 1\right)}
10.166 INVALID-ORDER-166 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                       H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_2 s - C_5 s + g_m\right)}{2 \left(2 C_2 C_4 C_5 L_4 R_4 s^4 + C_2 C_4 L_4 s^3 + C_2 C_4 R_4 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 s + C_4 C_5 L_4 R_4 g_m s^3 + C_4 C_5 L_4 s^3 + C_4 C_5 R_4 s^2 + C_4 R_4 g_m s + C_5 R_4 g_m s + C_5
```

```
H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1\right)}{2 \left(2 C_2 C_4 C_5 L_4 R_4 R_5 s^4 + 2 C_2 C_4 L_4 R_5 s^3 + C_2 C_4 R_4 R_5 s^2 + 2 C_2 C_5 R_4 R_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^2 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 R_5 g_m s + C_5 R_5 s + R_4 g_m s^2 + C_4 R_5 g_m s^2 + 
 10.168 INVALID-ORDER-168 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
 H(s) = \frac{R_4 \left( C_4 L_4 s^2 + 1 \right) \left( C_2 C_5 R_5 s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left( 2 C_2 C_4 C_5 L_4 R_4 s^4 + C_2 C_4 C_5 L_4 R_5 s^4 + C_2 C_4 C_5 R_4 R_5 s^3 + C_2 C_4 R_4 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_4 s^2 + C_2 C_5 R_4 s^2 + C_2 C_5 R_4 s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 R_4 g_m s^2 + C_4 R_4 g_m s^3 + C_4 R_5 g_m s^3
 10.169 INVALID-ORDER-169 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
 H(s) = \frac{R_4 \left( C_4 L_4 s^2 + 1 \right) \left( C_2 C_5 L_5 s^3 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 \left( C_2 C_4 C_5 L_4 L_5 s^5 + 2 C_2 C_4 C_5 L_4 R_4 s^4 + C_2 C_4 L_4 s^3 + C_2 C_4 R_4 s^2 + C_2 C_5 L_5 s^3 + 2 C_2 C_5 R_4 s^2 + C_4 C_5 L_4 L_5 g_m s^4 + C_4 C_5 L_4 R_4 g_m s^3 + C_4 C_5 L_4 g_m s^3 + C_4 C_5 L_5 g_m s^3 + C_5 L_5 g
 10.170 INVALID-ORDER-170 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
 H(s) = \frac{R_4 \left( C_4 L_4 s^2 + 1 \right) \left( C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{2 \left( 2 C_2 C_4 C_5 L_4 L_5 R_4 s^5 + C_2 C_4 L_4 R_4 s^3 + C_2 C_4 L_5 R_4 s^3 + C_2 L_5 s^2 + 2 C_2 R_4 s + C_4 C_5 L_4 L_5 R_4 g_m s^4 + C_4 C_5 L_4 L_5 R_4 g_m s^3 + C_4 L_4 R_4 g_m s^2 + C_4 L_4 R_4 g_m s^2 + C_4 L_4 R_4 g_m s^2 + C_4 L_5 R_4 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 R
 10.171 INVALID-ORDER-171 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
 H(s) = \frac{R_4 \left( C_4 L_4 s^2 + 1 \right) \left( C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left( C_2 C_4 C_5 L_4 L_5 s^5 + 2 C_2 C_4 C_5 L_4 R_4 s^4 + C_2 C_4 C_5 L_4 R_5 s^4 + C_2 C_4 C_5 L_4 R_5 s^3 + C_2 C_4 L_4 s^3 + C_2 C_4 L_4 s^3 + C_2 C_5 R_5 s^2 + C_2 s + C_4 C_5 L_4 L_5 g_m s^4 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_4 s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_5 R_5 g_m s^3 + C_5 L_5 R_5
 10.172 INVALID-ORDER-172 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
 H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(-C_2 L_5 R_5 s^2 + C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{2 \left(2 C_2 C_4 C_5 L_4 L_5 R_4 R_5 s^5 + 2 C_2 C_4 L_4 L_5 R_5 s^4 + C_2 C_4 L_4 L_5 R_5 s^4 + C_2 C_4 L_4 L_5 R_5 s^4 + C_2 C_4 L_4 L_5 R_5 s^3 + 2 C_2 C_5 L_5 R_4 R_5 s^3 + 2 C_2 L_5 R_4 s^2 + C_2 L_5 R_5 s^2 + 2 C_2 R_4 R_5 s^4 + C_4 C_5 L_4 L_5 R_5 s^4 + C_4 C_5 L_4 L_5 R_4 R_5 s^3 + C_4 L_4 L_5 R_5 s^3 + C_4 L_5 L_5 R_5 s^3 + C_4 L_4 L_5 R_5 s^3 + C_4 L_5 L_5 R_5 s^3 + C_4 L_5 L_5 R_5 s^3 + C_4 L_5 L_5 R_5 s^3 + C_5 L_5 R_
 10.173 INVALID-ORDER-173 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
 H(s) = \frac{R_4 \left( C_4 L_4 s^2 + 1 \right) \left( C_2 C_5 L_5 R_5 s^3 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - 
 10.174 INVALID-ORDER-174 Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R_4 \left( C_4 L_4 s^2 + 1 \right) \left( C_2 C_5 L_5 R_5 s^3 + C_2 R_5 s + C_5 L_5 R_5 \right)
 H(s) = \frac{1}{2\left(2 C_{2} C_{4} C_{5} L_{4} L_{5} R_{4} s^{5}+C_{2} C_{4} C_{5} L_{4} L_{5} R_{5} s^{5}+2 C_{2} C_{4} C_{5} L_{4} R_{5} s^{4}+2 C_{2} C_{4} L_{4} R_{5} s^{4}+2 C_{2} C_{4} L_{4} R_{5} s^{3}+C_{2} C_{4} L_{4} R_{5} s^{3}+2 C_{2} C_{5} L_{5} R_{4} s^{3}+C_{2} C_{5} L_{5} R_{5} s^{3}+2 C_{2} C_{5} L_{5} R_{4} s^{3}+C_{2} C_{5} L_{4} L_{5} R_{5} s^{4}+C_{4} C_{5} L
10.175 INVALID-ORDER-175 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, R_4, R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      H(s) = \frac{R_4 \left( C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left( 2 C_2 R_2 R_4 s + C_2 R_2 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}
```

10.167 INVALID-ORDER-167 $Z(s) = \left(\infty, \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

10.176 INVALID-ORDER-176
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 s^3 + C_2 R_2 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_2 C_5 L_5 R_2 s^3 + 2 C_2 C_5 R_2 R_4 s^2 + C_2 R_2 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1\right)}$$

10.177 INVALID-ORDER-177
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_5 R_2 s^2 - C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2 \right)}{2 \left(2 C_2 C_5 L_5 R_2 R_4 s^3 + C_2 L_5 R_2 s^2 + 2 C_2 R_2 R_4 s + C_5 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_4 g_m + R_2 + 2 R_4 \right)}$$

10.178 INVALID-ORDER-178
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 s^3 + C_2 C_5 R_2 R_5 s^2 + C_2 R_2 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1 \right)}{2 \left(C_2 C_5 L_5 R_2 s^3 + 2 C_2 C_5 R_2 R_4 s^2 + C_2 C_5 R_2 R_5 s^2 + C_2 R_2 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_4 g_m s + C_5 R_2 R_5 g_m s + C_5 R_2 s + 2 C_5 R_4 s + C_5 R_5 s + R_2 g_m + 1 \right)}$$

10.179 INVALID-ORDER-179
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_5 R_2 R_5 s^2 - C_5 L_5 R_2 R_5 s^2 + L_5 R_2 R_5 g_m s - L_5 R_2 s + L_5 R_5 s - R_2 R_5 \right)}{2 \left(2 C_2 C_5 L_5 R_2 R_4 s^3 + 2 C_2 L_5 R_2 R_4 s^2 + C_2 L_5 R_2 R_5 s^2 + 2 C_5 L_5 R_2 R_4 g_s s^2 + C_5 L_5 R_2 R_4 g_s s^2 + C_5 L_5 R_2 R_4 g_s s^2 + L_5 R_2 R_4 g_m s + L_5 R_2 R_5 g_m s + L_5 R_2 s + 2 L_5 R_4 s + L_5 R_5 s + R_2 R_4 R_5 g_m + R_2 R_5 + 2 R_4 R_5 g_m + R_2 R_5 r_5 \right)}$$

10.180 INVALID-ORDER-180
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 R_5 s^3 + C_2 L_5 R_2 s^2 + C_2 R_2 R_5 s + C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(2 C_2 C_5 L_5 R_2 R_4 s^3 + C_2 C_5 L_5 R_2 R_5 s^3 + C_2 L_5 R_2 s^2 + 2 C_2 R_2 R_4 s + C_2 R_2 R_5 s + C_5 L_5 R_2 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 R_5 \right)}$$

10.181 INVALID-ORDER-181
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 R_5 s^3 + C_2 R_2 R_5 s + C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 - C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(2 C_2 C_5 L_5 R_2 R_5 s^3 + 2 C_2 C_5 R_2 R_4 R_5 s^2 + 2 C_2 R_2 R_4 s + C_2 R_2 R_5 s + C_5 L_5 R_2 R_5 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + C_5 L_5 R_2 s^2 + C_5 R_2 R_4 R_5 s + C_5 R_2 R_4 R_5 s + R_2 R_4 g_m + R_2 R_5 g_m + R_2 + 2 R_4 + R_5 \right)}$$

10.182 INVALID-ORDER-182 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2R_2s - C_5R_2s + R_2g_m + 1}{2s\left(C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5R_2s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}$$

10.183 INVALID-ORDER-183 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1}{2s\left(C_2C_4C_5R_2R_5s^2 + C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5R_2R_5g_ms + C_4C_5R_2s + C_4$$

10.184 INVALID-ORDER-184
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1}{2s\left(C_2C_4C_5L_5R_2s^3 + C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5L_5R_2g_ms^2 + C_4C_5L_5s^2 + C_4C_5R_2s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}$$

10.185 INVALID-ORDER-185 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2}{2\left(C_2C_4L_5R_2s^3 + 2C_2C_5L_5R_2s^3 + 2C_2R_2s + C_4C_5L_5R_2s^3 + C_4L_5R_2g_ms^2 + C_4L_5s^2 + C_4R_2s + C_5L_5R_2g_ms^2 + 2C_5L_5s^2 + R_2g_m + 2\right)}$$

10.186 INVALID-ORDER-186 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1}{2s\left(C_2C_4C_5L_5R_2s^3 + C_2C_4C_5R_2s^2 + C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5L_5s^2 + C_4C_5L_5s^2 + C_4C_5R_2g_ms + C_4C_5R_2s + C$$

10.187 INVALID-ORDER-187 $Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

$$H(s) = \frac{C_2L_5R_2R_5s^2 - C_5L_5R_2R_5s^2 + L_5R_2R_5g_ms - L_5R_2s + L_5R_5s - R_2R_5}{2\left(C_2C_4L_5R_2R_5s^3 + 2C_2C_5L_5R_2R_5s^3 + 2C_2L_5R_2s^2 + 2C_2R_2R_5s + C_4L_5R_2s^3 + C_4L_5R_2s^2 + C_4L_5R_5s^2 + C_4L$$

10.188 INVALID-ORDER-188 $Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

$$H(s) = \frac{C_2C_5L_5R_2R_5s^3 + C_2L_5R_2s^2 + C_2R_2R_5s + C_5L_5R_2s^2 + C_5L_5R_2s^2 + C_5L_5R_2s^2 + C_5L_5R_2s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + R_5}{2\left(C_2C_4C_5L_5R_2s^3 + C_2C_4L_5R_2s^3 + C_2C_4L_5R_2s^3 + 2C_2C_5L_5R_2s^3 + 2C_2R_2s + C_4C_5L_5R_2s^3 + C_4C_5L_5R_2s^3 + C_4C_5L_5R_2s^3 + C_4L_5R_2g_ms^2 + C_4L_5s^2 + C_4R_2s^2 + C_4R_2s^2 + C_5L_5s^2 + R_2g_ms^2 + C_4L_5s^2 + C_4R_2s^2 + C_4R_$$

10.189 INVALID-ORDER-189 $Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{C_2C_5L_5R_2R_5s^3 + C_2R_2R_5s + C_5L_5R_2g_ms^2 - C_5L_5R_2s^2 + C_5L_5R_2s^2 + C_5L_5R_5s^2 - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5}{2\left(C_2C_4C_5L_5R_2R_5s^4 + C_2C_4R_2R_5s^2 + 2C_2C_5L_5R_2s^3 + 2C_2C_5R_2S^2 + 2C_2R_2s + C_4C_5L_5R_2s^3 + C_4C_5L_5R_$$

10.190 INVALID-ORDER-190 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

10.191 INVALID-ORDER-191 $Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 s^3 + C_2 R_2 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left(C_2 C_4 C_5 L_5 R_2 R_4 s^4 + C_2 C_4 R_2 R_4 s^2 + C_2 C_5 L_5 R_2 s^3 + 2 C_2 C_5 R_2 R_4 s^2 + C_4 C_5 L_5 R_2 R_4 g_m s^3 + C_4 C_5 L_5 R_2 R_4 g_m s^3 + C_4 C_5 L_5 R_2 R_4 g_m s + C_4 R_4 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 R_4 g_m s + C_5 R_2 R_4$$

10.192 INVALID-ORDER-192 $Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 L_5 R_2 s^2 - C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2 \right)}{2 \left(C_2 C_4 L_5 R_2 R_4 s^3 + 2 C_2 C_5 L_5 R_2 R_4 s^3 + C_2 L_5 R_2 s^2 + 2 C_2 R_2 R_4 s + C_4 C_5 L_5 R_2 R_4 g_m s^2 + C_4 L_5 R_4 g_m s^2 + C_4 L_5 R_4 g_m s^2 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_4 g_m + R_2 + 2 R_4 \right)}$$

10.193 INVALID-ORDER-193 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 s^3 + C_2 C_5 R_2 R_5 s^2 + C_2 R_2 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 + C_5 R_2 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1 \right)}{2 \left(C_2 C_4 C_5 L_5 R_2 R_4 s^4 + C_2 C_4 C_5 R_2 R_4 s^3 + C_2 C_5 L_5 R_2 s^3 + 2 C_2 C_5 R_2 R_4 s^2 + C_2 C_5 R_2 R_5 s^2 + C_4 R_2 R_4 g_m s^3 + C_4 C_5 L_5 R_2 R_4 g_m s^3 + C_4 C_5 R_2 R_4 g_m s^2 + C_4 C_5 R_4 g_m$$

```
10.194 INVALID-ORDER-194 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R_4\left(C_2L_5R_2R_5s^2-C_5L_5R_2R_5s^2+L_5R_2R_5g_ms-L_5R_2s+L_5R_5s-R_2R_5\right)
10.195 INVALID-ORDER-195 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R_4 \left( C_2 C_5 L_5 R_2 R_5 s^3 + C_2 L_5 R_2 s^2 + C_2 R_2 R_5 s + C_5 L_5 R_2 R_5 g_m s^2 - C_5 L_5 R_2 s^2 + C_5 L_5 R_5 s^2 + L_5 R_2 g_m s + L_5 s + R_2 R_5 g_m s^2 \right) + C_5 L_5 R_5 s^3 + C_5 L_5 R_5 s^3 + C_5 L_5 R_5 s^2 + C_5 L_5 R_5 s^2 + C_5 L_5 R_5 s^3 + C_5 L_5 R_5 R_5 s^3 + C_5 L_5 R_5 
H(s) = \frac{R_4 \left( C_2 C_5 L_5 R_2 R_5 s^3 + C_2 L_5 R_2 s^3 + C_2 L_5 R_2 s^3 + C_5 L_5 R_2 R_5 s^3 + C_5 L_5 R_2 s^3 + 
10.196 INVALID-ORDER-196 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10.197 INVALID-ORDER-197 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 R_2 s - C_5 R_2 s + R_2 g_m + 1\right)}{2 s \left(2 C_2 C_4 C_5 R_2 R_4 s^2 + C_2 C_4 R_2 s + 2 C_2 C_5 R_2 s + C_4 C_5 R_2 R_4 g_m s + C_4 C_5 R_2 s + 2 C_4 C_5 R_4 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5\right)}
10.198 INVALID-ORDER-198 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                             H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(2C_2C_4C_5R_2R_4R_5s^3 + 2C_2C_4R_2R_4s^2 + C_2C_4R_2R_5s^2 + 2C_2C_5R_2R_5s^2 + 2C_2C_5R_2R_5s^2 + 2C_4C_5R_4R_5g_ms^2 + C_4C_5R_2R_4g_ms + C_4R_2R_5g_ms + C_4R_2R_5g_ms + C_4R_2s + 2C_4R_4s + C_4R_5s + C_5R_2g_ms + 2C_5R_5s + R_2g_m + 2C_5R_5
10.199 INVALID-ORDER-199 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                     H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2s\left(2C_2C_4C_5R_2R_4s^2 + C_2C_4C_5R_2S^2 + C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5R_2R_4g_ms + C_4C_5R_2Sg_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4C_5R_5s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}
10.200 INVALID-ORDER-200 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                 H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_5R_2s^3 + 2C_2C_4C_5R_2s + C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5L_5R_2g_ms^2 + C_4C_5R_2R_4g_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}
10.201 INVALID-ORDER-201 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                         H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{2\left(2C_2C_4C_5L_5R_2s^3 + 2C_2C_4R_2R_4s^2 + 2C_2C_5L_5R_2s^3 + 2C_2R_2s + C_4C_5L_5R_2g_ms^3 + C_4C_5L_5R_2s^3 + 2C_4C_5L_5R_2s^3 + 2C_4C
10.202 INVALID-ORDER-202 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                     H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2s + C_
```

```
10.203 INVALID-ORDER-203 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (C_4R_4s+1)(C_2L_5R_2R_5s^2-C_5L_5R_2R_5s^2+L_5R_2R_5g_ms-L_5R_2s+L_5R_5s-R_2R_5)
H(s) = \frac{(C_4R_4s+1)\left(C_2L_5R_2R_5s^2 - C_5L_5R_2R_5s^2 + L_5R_2R_5s^2 + L_5R_2S_5s^2 + L_5R_2
10.204 INVALID-ORDER-204 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_5R_2R_5s^3 + C_2L_5R_2s^2 + C_2R_2R_5s + C_5L_5R_2s^2 + C_5L
10.205 INVALID-ORDER-205 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                  10.206 INVALID-ORDER-206 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                         H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(2 C_2 C_4 L_4 R_2 s^3 + C_2 C_4 R_2 R_5 s^2 + 2 C_2 R_2 s + C_4 L_4 R_2 g_m s^2 + 2 C_4 L_4 s^2 + C_4 R_2 R_5 g_m s + C_4 R_2 s + C_4 R_5 s + R_2 g_m + 2\right)}
10.207 INVALID-ORDER-207 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                       H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_2 R_2 s - C_5 R_2 s + R_2 g_m + 1\right)}{2 s \left(2 C_2 C_4 C_5 L_4 R_2 s^3 + C_2 C_4 R_2 s + 2 C_2 C_5 R_2 s + C_4 C_5 L_4 R_2 g_m s^2 + 2 C_4 C_5 L_4 s^2 + C_4 C_5 R_2 s + C_4 R_2 g_m + C_4 + C_5 R_2 g_m + 2 C_5\right)}
10.208 INVALID-ORDER-208 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                             H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(2C_2C_4C_5L_4R_2R_5s^4 + 2C_2C_4L_4R_2s^3 + C_2C_4R_2R_5s^2 + 2C_2C_5R_2R_5s^2 + 2C_4C_5L_4R_2s^3 + C_4C_5L_4R_2s^3 + C_4C_5L_
10.209 INVALID-ORDER-209 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                 H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2s\left(2C_2C_4C_5L_4R_2s^3 + C_2C_4C_5R_2R_5s^2 + C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5R_2g_ms + C_4C_5R_2s + C_4C
10.210 INVALID-ORDER-210 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, L_4s + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)
                                                                                                                                                             H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2s\left(2C_2C_4C_5L_4R_2s^3 + C_2C_4C_5L_5R_2s^3 + C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5L_5R_2g_ms^2 + C_4C_5L_5s^2 + C_4C_5R_2s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}
10.211 INVALID-ORDER-211 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                         H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{2\left(2C_2C_4C_5L_4L_5R_2s^5 + 2C_2C_4L_4R_2s^3 + C_2C_4L_5R_2s^3 + 2C_2C_5L_5R_2s^3 + 2C_4L_5R_2g_ms^4 + 2C_4C_5L_4L_5s^4 + C_4C_5L_4L_5s^4 + C_4C_5L_4R_2g_ms^2 + 2C_4L_4s^2 + C_4L_5R_2g_ms^2 + 2C_4L_4s^2 + C_4L_5R_2g_ms^2 + 2C_4L_4s^2 + C_4L_5R_2g_ms^2 + 2C_5L_5s^2 + R_2g_m + 2C_5L_5s^2 + R_2g_m + 2C_5L_5R_2g_ms^2 + 2C_4L_4R_2g_ms^2 + 2C_4L_4R_2g_ms^2 + 2C_4L_4R_2g_ms^2 + 2C_4L_5R_2g_ms^2 + 2C_4L_5R
```

```
10.212 INVALID-ORDER-212 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                             H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2s\left(2C_2C_4C_5L_4R_2s^3 + C_2C_4C_5L_5R_2s^3 + C_2C_4C_5R_2s + C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5L_5s^2 + C_4C_5L_5s^2 + C_4C_5R_2s + C_4C_
10.213 INVALID-ORDER-213 Z(s) = \left(\infty, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \left(C_{4}L_{4}s^{2}+1\right)\left(C_{2}L_{5}R_{2}R_{5}s^{2}-C_{5}L_{5}R_{2}R_{5}s^{2}+L_{5}R_{2}R_{5}g_{m}s-L_{5}R_{2}s+L_{5}R_{5}s-R_{2}R_{5}\right)
10.214 INVALID-ORDER-214 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, L_4s + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_2R_5s^3 + C_2L_5R_2s^2 + C_2R_2R_5s + C_5L_5R_2s^2 + C_5L_5R_2s^2 + C_5L_5R_2s^2 + L_5R_2g_ms + L_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(2C_2C_4C_5L_4L_5R_2s^5 + C_2C_4C_5L_4L_5R_2s^3 + C_2C_4L_4R_2s^3 + C_2C_4L_5R_2s^3 + C_2C_4L_5R_2s^3 + C_4C_5L_4L_5R_2g_ms^4 + 2C_4C_5L_4L_5R_2g_ms^3 + C_4C_5L_5R_2s^3 + C_4C_5L_5R_2
10.215 INVALID-ORDER-215 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_2R_5s^3 + C_2R_2R_5s + C_5L_5R_2S_2s^2 + C_5L_5R_2s^2 + C_5L_5R_2s^2 - C_5R_2R_5s + R_2R_5g_m - C_5R_2R_5s^2 + C_5L_5R_2s^3 + C_5L
10.216 INVALID-ORDER-216 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                         H(s) = \frac{L_4s \left( C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left( C_2 C_4 L_4 R_2 R_5 s^3 + 2 C_2 L_4 R_2 s^2 + C_2 R_2 R_5 s + C_4 L_4 R_2 R_5 g_m s^2 + C_4 L_4 R_2 s^2 + C_4 L_4 R_5 s^2 + L_4 R_2 g_m s + 2 L_4 s + R_2 R_5 g_m + R_2 + R_5 \right)}
10.217 INVALID-ORDER-217 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                       H(s) = \frac{L_4 s \left(C_2 R_2 s - C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_2 C_4 L_4 R_2 s^3 + 2 C_2 C_5 L_4 R_2 s^3 + C_2 R_2 s + C_4 C_5 L_4 R_2 s^3 + C_4 L_4 R_2 g_m s^2 + C_4 L_4 s^2 + C_5 L_4 R_2 g_m s^2 + 2 C_5 L_4 s^2 + C_5 R_2 s + R_2 g_m + 1\right)}
10.218 INVALID-ORDER-218 Z(s) = \left(\infty, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)
                                                            H(s) = \frac{L_4s\left(C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_2C_4L_4R_2R_5s^3 + 2C_2C_5L_4R_2R_5s^3 + 2C_2L_4R_2s^2 + C_2R_2R_5s + C_4C_5L_4R_2R_5g_ms^2 + C_4L_4R_2s^2 + C_4L_4R_2s^2 + C_5L_4R_2R_5g_ms^2 + 2C_5L_4R_5s^2 + C_5R_2R_5s + L_4R_2g_ms + 2L_4s + R_2R_5g_m + R_2 + R_5\right)}
10.219 INVALID-ORDER-219 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                               H(s) = \frac{L_4s\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2\left(C_2C_4C_5L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_4C_5L_4R_2s^3 + C_4C_5L_4R_2s^3 + C_4L_4R_2g_ms^2 + C_4L_4s^2 + C_5L_4R_2g_ms^2 + C_4L_4s^2 + C_5R_2R_5g_ms + C_5R_2s 
10.220 INVALID-ORDER-220 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1}, L_5s + \frac{1}{C_5s}, \infty\right)
                              H(s) = \frac{L_4s\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2\left(C_2C_4C_5L_4L_5R_2s^5 + C_2C_4L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + C_2C_5L_5R_2s^3 + C_2R_2s + C_4C_5L_4L_5s^4 + C_4C_5L_4L_5s^4 + C_4C_5L_4R_2g_ms^2 + C_5L_4s^2 + C_5L_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2s + R_2g_m + 1\right)}
```

```
10.221 INVALID-ORDER-221 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                       H(s) = \frac{L_4s\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{2\left(C_2C_4L_4L_5R_2s^4 + 2C_2C_5L_4L_5R_2s^4 + 2C_2L_4R_2s^2 + C_4L_5R_2s^4 + C_4L_4L_5R_2g_ms^3 + C_4L_4L_5s^3 + C_4L_4R_2s^2 + C_5L_4L_5s^3 + C_5L_4L_5s^3 + C_5L_5R_2s^2 + L_4R_2g_ms + L_5s + R_2\right)}
10.222 INVALID-ORDER-222 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_4s\left(C_2C_5L_5R_2s^3 + C_2C_5R_2R_5s^2 + C_2R_2s + C_5L_5s^2 + C_5R_2g_ms^2 + C_5L_5s^2 + C_5R_2g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2\left(C_2C_4C_5L_4L_5R_2s^5 + C_2C_4C_5L_4R_2s^3 + C_2C_5L_4R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_5L_4R_2s^3 + C_2C_5L_4R_2s^3 + C_2C_5L_4R_2s^3 + C_4C_5L_4L_5s^4 + C_4C_5L_4R_2s^3 + C_4C_5L_4R_2s
10.223 INVALID-ORDER-223 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L_{4}s\left(C_{2}L_{5}R_{2}R_{5}s^{2}-C_{5}L_{5}R_{2}R_{5}s^{2}+L_{5}R_{2}R_{5}g_{m}s-L_{5}R_{2}s+L_{5}R_{5}s-R_{2}R_{5}\right)
H(s) = \frac{L_4s\left(C_2L_5R_2R_5s^2 - C_5L_5R_2R_5s^2 + L_5R_2R_5s^2 + L_5R_2S_5s^2 
10.224 INVALID-ORDER-224 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{5}R_{2}R_{5}s^{3} + C_{2}L_{5}R_{2}s^{2} + C_{2}R_{2}R_{5}s + C_{5}L_{5}R_{2}s^{2} + C_{5}L_{5}R_{2}s^{2} + C_{5}L_{5}R_{2}s^{2} + L_{5}R_{2}g_{m}s + L_{5}s + R_{2}R_{5}g_{m}s + L_{5}s + R_{2}R_{5}g_{m}s + L_{5}s + R_{5}R_{5}g_{m}s + L_{5}s + L_{5}R_{5}g_{m}s + L_{5}s + R_{5}R_{5}g_{m}s + L_{5}s + R_{5}R_
10.225 INVALID-ORDER-225 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            L_{4}s\left(C_{2}C_{5}L_{5}R_{2}R_{5}s^{3}+C_{2}R_{2}R_{5}s+C_{5}L_{5}R_{2}R_{5}g_{m}s^{2}-C_{5}L_{5}R_{2}s^{2}+C_{5}L_{5}R_{5}s^{2}-C_{5}R_{2}R_{5}s+R_{2}R_{5}g_{m}-R_{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_
H(s) = \frac{L_4s \left( C_2C_5L_5R_2R_5s + C_5L_5R_2R_5s + C_5L_5R_2S + C_5L_5R_2S + C_5L_5R_2S + C_5L_5R_5s - C_5R_2R_5s + C_5L_5R_2S + C_5
10.226 INVALID-ORDER-226 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, R_5, \infty\right)
```

 $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(2C_2C_4L_4R_2s^3 + 2C_2C_4R_2R_4s^2 + C_2C_4R_2R_5s^2 + 2C_2R_2s + C_4L_4R_2g_ms^2 + 2C_4L_4s^2 + C_4R_2R_4g_ms + C_4R_2R_5g_ms + C_4R_2s + 2C_4R_4s + C_4R_5s + R_2g_m + 2\right)}$

10.227 INVALID-ORDER-227 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{2s\left(2C_2C_4C_5L_4R_2s^3 + 2C_2C_4C_5R_2R_4s^2 + C_2C_4R_2s + 2C_2C_5R_2s + C_4C_5L_4R_2g_ms^2 + 2C_4C_5R_2R_4g_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}$

10.228 INVALID-ORDER-228 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $\frac{\left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}R_{2}R_{5}s-C_{5}R_{2}R_{5}s+R_{2}R_{5}g_{m}-R_{2}+R_{5}\right)}{2\left(2C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4}+2C_{2}C_{4}L_{4}R_{2}s^{3}+2C_{2}C_{4}L_{4}R_{2}s^{3}+2C_{2}C_{4}R_{2}R_{5}s^{2}+2C_{2}C_{5}R_{2}R_{5}s^{2}+2C_{2}C_{5}R_{2}R_{5}s^{2}+2C_{4}C_{5}L_{4}R_{5}s^{3}+C_{4}C_{5}R_{4}R_{5}s^{3}+C_{4}C_{5}R_{4}R_{5}s^{2}+2C_{4}C_{5}R_{$

10.229 INVALID-ORDER-229 $Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2s\left(2C_2C_4C_5L_4R_2s^3 + 2C_2C_4C_5R_2R_4s^2 + C_2C_4C_5R_2s + C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5R_2R_4g_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4C_5R_2s +$

```
10.230 INVALID-ORDER-230 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                      H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2s\left(2C_2C_4C_5L_4R_2s^3 + C_2C_4C_5L_5R_2s^3 + 2C_2C_4C_5R_2s + 2C_2C_5R_2s + C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5L_5s^2 + C_4C_5R_2s + 2C_4C_5R_4s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}
10.231 INVALID-ORDER-231 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2\right)}{2\left(2C_2C_4C_5L_4L_5R_2s^5 + 2C_2C_4C_5L_5R_2s^3 + 2C_2C_4L_4R_2s^3 + C_2C_4L_5R_2s^3 + 2C_2C_4L_5R_2s^3 + 2C_2C_5L_5R_2s^3 + 2C_4C_5L_4L_5R_2g_ms^4 + 2C_4C_5L_4L_5R_2g_ms^3 + C_4C_5L_5R_2s^3 + 2C_4C_5L_5R_2s^3 + 2C_4C_5L
10.232 INVALID-ORDER-232 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5R_2s^3 + C_2C_5R_2s^3 + C_2C_5R_2s^2 + C_5L_5s^2 + C_5L_5s^2 + C_5R_2s + C_5R
10.233 INVALID-ORDER-233 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)
H(s) = \frac{(C_4L_4s^2 + C_4R_4s + 1)(C_2L_4s^2 + C_4R_4s + 1)(C_4L_4s^2 + C_4R_4s^2 + C_4R_4
10.234 INVALID-ORDER-234 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                         10.235 INVALID-ORDER-235 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (C_4L_4s^2+C_4R_4s+1)(C_2C_5L_5R_2R_4s^2+1)
H(s) = \frac{1}{2\left(2C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{2}R_{2}s^{4} + 2C_{2}C_{4}C_{5}L_{2}R_{2}s^{3} + 2C_{2}C_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{4}L_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{4}R_{2}s^{3} + 2C_{2}C_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{4}L_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{4}R_{2}s^{3} + 2C_{2}C_{4}L_{5}R_{2}s^{3} + 2C_{2}C_{5}L_{5}R_{2}s^{3} + 2C_{2}C_{5}L_{5}R
10.236 INVALID-ORDER-236 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)
                                                            H(s) = \frac{L_4 R_4 s \left(C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5\right)}{2 \left(C_2 C_4 L_4 R_2 R_4 s^3 + 2 C_2 L_4 R_2 R_4 s^2 + C_2 L_4 R_2 R_5 s^2 + C_4 L_4 R_2 R_4 s^2 + C_4 L_4 R_2 R_4 s^2 + C_4 L_4 R_2 R_4 s^2 + L_4 R_2 R_4 g_m s + L_4 R_2 R_5 g_m s + L_4 R_2 s + 2 L_4 R_4 s + L_4 R_5 s + R_2 R_4 R_5 g_m + R_2 R_4 + R_4 R_5\right)}
10.237 INVALID-ORDER-237 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{1}{C_5s}, \infty\right)
                                                                    H(s) = \frac{L_4 R_4 s \left(C_2 R_2 s - C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_2 C_4 L_4 R_2 R_4 s^3 + 2 C_2 C_5 L_4 R_2 R_4 s^3 + C_2 L_4 R_2 s^2 + C_2 R_2 R_4 s + C_4 C_5 L_4 R_2 R_4 s^3 + C_4 L_4 R_2 R_4 g_m s^2 + C_5 L_4 R_2 R_4 g_m s^2 + C_5 L_4 R_2 s^2 + 2 C_5 L_4 R_4 s^2 + C_5 R_2 R_4 s + L_4 R_2 g_m s + L_4 s + R_2 R_4 g_m + R_4\right)}
10.238 INVALID-ORDER-238 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           L_4R_4s\left(C_2R_2R_5s-C_5R_2R_5s+R_2R_5g_m-R_2+R_5\right)
```

```
10.239 INVALID-ORDER-239 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5 + \frac{1}{C_5s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           L_4R_4s\left(C_2C_5R_2R_5s^2+C_2R_2s+C_5R_2R_5g_ms-C_5R_2s+C_5R_5s+R_2g_m+1\right)
H(s) = \frac{L_4 R_4 s \left(C_2 C_5 R_2 R_5 s^2 + C_2 R_2 s + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1\right)}{2 \left(C_2 C_4 C_5 L_4 R_2 R_4 s^3 + 2 C_2 C_5 L_4 R_2 R_4 s^3 + C_2 C_5 L_4 R_2 R_4 s^3 + C_4 C_5 L_4 R_2 R_4 g_m s^2 + C_5 L_4 R_2 R_4 g_
10.240 INVALID-ORDER-240 Z(s) = \left(\infty, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)
10.241 INVALID-ORDER-241 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   L_4R_4s\left(C_2L_5R_2s^2-C_5L_5R_2s^2+L_5R_2g_ms+L_5s-R_2\right)
10.242 INVALID-ORDER-242 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{L_4 \kappa_4 s \left(C_2 C_5 L_5 \kappa_2 s^\circ + C_2 C_5 \kappa_2 \kappa_3 + C_2 C_5 \kappa_2 \kappa_3 + C_2 \kappa_2 \kappa_3 + C_2 \kappa_2 \kappa_3 + C_2 \kappa_3 \kappa_3 + C_2 \kappa
10.243 INVALID-ORDER-243 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       L_4R_4s\left(C_2L_5R_2R_5s^2-C_5L_5R_2R_5s^2+L_5R_2R_5g_ms-L_5\right)
                                        \frac{L_4 R_4 s \left(C_2 L_5 R_2 R_5 s^2 - C_5 L_5 R_2 R_5 s^2 + L_5 R_2 R_5 g_m s - L_5 L_5 R_2 R_5 s^2 - C_5 L_5 R_2 R_5 s^2 + L_5 R_2 R_5 g_m s - L_5}{2 \left(C_2 C_4 L_4 L_5 R_2 R_4 R_5 s^4 + 2 C_2 L_4 L_5 R_2 R_4 R_5 s^4 + 2 C_2 L_4 L_5 R_2 R_4 R_5 s^4 + 2 C_2 L_4 L_5 R_2 R_4 R_5 s^4 + C_4 L_4 L_5 R_4 R_5 s^4 + C_4
10.244 INVALID-ORDER-244 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{5}L_{4}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{5}L_{4}L_{5}R_{2}R_{5}s^{4} + C_{2}C_{5}L_{4}L_{5}R_{2}R_{4}s^{3} + C_{2}L_{4}L_{5}R_{2}s^{3} + C_{2}L_{4}R_{2}R_{5}s^{3} + C_{2}L_{4}R_{2}R_{5}s^{2} + C_{2}L_{5}R_{2}R_{4}s^{2} + C_{2}L_{5
10.245 INVALID-ORDER-245 Z(s) = \left(\infty, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)
H(s) = \frac{L_4}{2\left(C_2C_4C_5L_4L_5R_2R_4R_5s^5 + C_2C_4L_4R_2R_4R_5s^3 + 2C_2C_5L_4L_5R_2R_4s^4 + C_2C_5L_4L_5R_2R_4s^4 + C_2C_5L_4R_2R_4R_5s^3 + 2C_2L_4R_2R_4s^2 + C_2L_4R_2R_4s^2 + C_2L_4R_2R_5s^2 + C_2R_2R_4R_5s + C_4C_5L_4L_5R_2R_4s^4 + C_4C_5L_4L_5R_2R_4s^4 + C_4C_5L_4L_5R_2R_4s^3 + 2C_4L_4R_2R_4s^3 + C_4C_5L_4R_2R_4s^3 + C_4C_5L_4R_4R_4s^3 + C_4C_5L_4R_4R_5s^3 + C_4C_5L_4R_5R_5s^4 + C_4C_5L_4R_5R_5s^4 + C_4C_5L_4R_5R_5s^4 + C_4C_5L_4R_5R_5s^4 + C_4C_5L_4R_5R_5s^4 + C_4C_5L_4R_5R_5s^4 + C_4C_5L_4R_5R_5s
10.246 INVALID-ORDER-246 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)
                                                                                   H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(2C_2C_4L_4R_2R_4s^3 + C_2C_4L_4R_2R_5s^3 + 2C_2L_4R_2s^2 + 2C_2R_2R_4s + C_2R_2R_5s + C_4L_4R_2R_4g_ms^2 + C_4L_4R_2R_5g_ms^2 + C_4L_4R_2s^2 + 2C_4L_4R_2s^2 + 2C_4L_4R_2s^
10.247 INVALID-ORDER-247 Z(s) = \left(\infty, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{1}{C_5 s}, \ \infty\right)
                                  H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{2\left(2C_2C_4C_5L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + 2C_2C_5R_2R_4s^2 + C_2R_2s + C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_2s^3 + 2C_5L_4s^2 + C_5R_2s +
```

```
10.248 INVALID-ORDER-248 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (C_4L_4R_4s^2 + L_4s + R_4)(C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5)
H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2R_2R_5s - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(2C_2C_4C_5L_4R_2R_4s^3 + 2C_2C_4L_4R_2R_5s^3 + 2C_2C_5L_4R_2s^2 + 2C_2L_4R_2s^2 + 2C_2R_2R_4s + C_2R_2R_5s + C_4C_5L_4R_2R_5s^3 + 2C_4C_5L_4R_2R_5s^3 + 2C_4C_5L_4R_5s^3 + 2C_4C_5L_4R_5s^3 + 2C_4C_5L_4R_5s^3 + 2C_4C_5L_4R_5s^3 + 2C_4C_5L_4R_5s^3 + 2C_4C_5L_
10.249 INVALID-ORDER-249 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5R_2R_5s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_5s + R_2g_m + 1\right)}{2\left(2C_2C_4C_5L_4R_2R_4s^4 + C_2C_4C_5L_4R_2R_5s^4 + C_2C_4L_4R_2s^3 + 2C_2C_5R_2R_4s^2 + C_2C_5R_2R_5s^2 + C_2R_2s + C_4C_5L_4R_2R_3s^3 + C_4C_5L_4R_2s^3 + 2C_4C_5L_4R_2s^3 + 2C_
10.250 INVALID-ORDER-250 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_5R_2s^3 + C_2R_2s + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2\left(C_2C_4C_5L_4L_5R_2s^5 + 2C_2C_4C_5L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + 2C_2C_5L_4
10.251 INVALID-ORDER-251 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{\left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right) \left(C_2 L_5 R_2 s^2 - C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2\right)}{2 \left(2 C_2 C_4 C_5 L_4 L_5 R_2 R_4 s^5 + C_2 C_4 L_4 L_5 R_2 s^4 + 2 C_2 C_5 L_4 L_5 R_2 s^4 + 2 C_4 L_5 R_2 
10.252 INVALID-ORDER-252 Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                              \frac{\left(C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}\right)\left(C_{2}C_{5}L_{5}R_{2}s^{3}+C_{2}C_{5}R_{2}R_{5}s^{2}+C_{2}R_{2}s+C_{5}L_{5}R_{2}g_{m}s^{2}+C_{5}L_{5}s^{2}+C_{5}R_{2}g_{m}s-C_{5}R_{5}R_{2}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{2}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R_{5}s^{2}+C_{5}R_{5}R
10.253 INVALID-ORDER-253 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
H(s) = \frac{1}{2\left(2C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{5}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{5}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{5}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{5}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{5}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{5}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{5}L_{4}L_{5}R_{2}s^{3} + 2C_{2}L_{4}R_{2}R_{5}s^{2} + 2C_{2}L_{5}R_{2}R_{4}s^{2} + 2C_{2}L_{5}R_{2}R_{5}s^{2} + 2C_{2}L_{5}
10.254 INVALID-ORDER-254 Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
H(s) = \frac{(C_4L_4R_4s^2 + L_4s + R_4)(C_5L_4L_5R_2R_4s^5 + C_2C_4C_5L_4L_5R_2s^4 + 2C_2C_5L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + 2C_2C_5L_4R_2s^3 + 2C_2C_5L_5R_2R_4s^3 + 2C_2C_5L_5R_4s^3 + 2C_2C_5L_5R_5R_5s^3 +
```

2(2020405D4D51621648 + 020405D41621648 + 0204D41621648 + 020

10.259 INVALID-ORDER-259
$$Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 C_5 R_2 R_5 s^2 + C_2 R_2 s + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + R_2 g_m + 1 \right)}{2 \left(2 C_2 C_4 C_5 L_4 R_2 R_4 s^4 + C_2 C_4 C_5 L_4 R_2 R_5 s^4 + C_2 C_4 C_5 R_2 R_4 R_5 s^3 + C_4 C_5 L_4 R_2 R_4 s^2 + 2 C_2 C_5 R_2 R_4 s^2 + C_2 C_5 R_2 R_4 R_5 s^2 + C_2 C_5 R_2 R_5 s^2 + C_2 C_5$

10.260 INVALID-ORDER-260
$$Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 C_5 L_5 R_2 s^3 + C_2 R_2 s + C_5 L_5 R_2 g_m s^2 + C_5 L_5 s^2 - C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left(C_2 C_4 C_5 L_4 L_5 R_2 s^5 + 2 C_2 C_4 C_5 L_4 R_2 R_4 s^4 + C_2 C_4 L_4 R_2 s^3 + C_2 C_4 L_4 R_2 s^3 + C_2 C_5 L_5 R_2 s^3 + 2 C_2 C_5 R_2 R_4 s^2 + C_2 C_5 L_5 R_2 s^3 + 2 C_4 C_5 L_4 L_5 s^4 + C_4 C_5 L_4 L_5 s^4 + C_4 C_5 L_4 R_2 s^3 + 2 C_4 C_5 L_5 R_2 s^3 + 2 C_5 L_5 R_2 s^3 + 2$

10.261 INVALID-ORDER-261
$$Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 L_5 R_2 s^2 - C_5 L_5 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2 \right)}{2 \left(2 C_2 C_4 C_5 L_4 L_5 R_2 R_4 s^5 + C_2 C_4 L_4 L_5 R_2 s^4 + 2 C_2 C_4 L_4 R_2 R_4 s^3 + C_2 L_5 R_2 s^2 + 2 C_2 R_2 R_4 s + C_4 C_5 L_4 L_5 R_2 s^4 + 2 C_4 C_5 L_4 L_5 R_2 s^4 + C_4 C_5 L_4 L_5 R_2 s^4 + 2 C_4 C_5 L_4 L_5 R_2 s^4 + C_4 C_5 L_5 R_2 s^4 + C_5 L_5 R$

10.262 INVALID-ORDER-262
$$Z(s) = \left(\infty, \frac{R_2}{C_2 R_2 s + 1}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_2 C_5 L_5 R_2 s^3 + C_2 C_5 R_2 s^3 + C_2 C_4 C_5 L_4 L_5 R_2 s^5 + 2 C_2 C_4 C_5 L_4 R_2 R_4 s^4 + C_4 C_5 L_4 L_5 R_2 s^3 + 2 C_2 C_5 R_2 R_4 s^2 + C_2 C_5 R_2 R_5 R_5 r_4 + C_2 C_5 R_2 R_5 r_5 + C_2 C_5 R_5 R_5 r_5 +$

10.263 INVALID-ORDER-263
$$Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

 $H(s) = \frac{1}{2\left(2C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{4}L_{4}R_{5}s^{3} + 2C_{2}C_{5}L_{5}R_{2}R_{4}R_{5}s^{3} + 2C_{2}L_{5}R_{2}R_{4}s^{5} + 2C_{2}L_{5}R_{2}R_{4}R_{5}s^{4} + 2C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}R_{5}s^{4} + 2C_{2}C_{4}L_{4}L_{5}R_{2}R_{5}s^{4} + 2C_{2}C_{4}L_{4}R_{5}s^{4} + 2C_{2}C_{4}L_{5}R_{4}R_{5}s^{4} + 2C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}s^{4} + 2C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}s^{4} + 2C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}s^{4} + 2C_{4}C_{5}L_{4}R_{5}R_{5}s^{4} + 2C_{4}C_{5}L_{4}R_{5}R_{5}s^{4}$

10.264 INVALID-ORDER-264
$$Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{2\left(2C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}s^{4} + 2C_{2}C_{4}L_{4}R_{2}R_{5}s^{3} + C_{2}C_{4}L_{4}R_{2}R_{5}s^{3} + C_{2}C_{5}L_{5}R_{2}R_{4}s^{3} + C_{2}C_{5}L_{5}R_{2}R_{5}s^{3} + C_{2}C_{5}L_{5}R_{2}R_{5}s^{3} + C_{2}C_{5}L_{5}R_{2}R_{5}s^{3} + C_{2}C_{4}L_{4}R_{2}R_{5}s^{4} + 2C_{2}C_{4}L_{4}R_{2}R_{5}s^{3} + C_{2}C_{4}L_{5}R_{2}R_{5}s^{3} + C_{2}C_{5}L_{5}R_{2}R_{5}s^{3} + C_{2}C_{5}L_{5}R_{5}R_{5}s^{3} + C_{2}C_{5}L_{5}R$

10.265 INVALID-ORDER-265
$$Z(s) = \left(\infty, \frac{R_2}{C_2R_2s+1}, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{1}{2\left(2C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{4}R_{2}R_{4}Ss^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}Ss^{4} + 2C_{2}C_{4}L_{4}R_{2}R_{5}s^{3} + 2C_{2}C_{5}L_{5}R_{2}R_{4}S^{3} + 2C_{2}C_{5}L_{5}R_{2}R_{5}s^{3} + 2C_{2}C_{5}L_{5}R_{5}R_{5}s^{3} + 2C_{2}C_{5}L_{5}R_{5}R_{5}s$

10.266 INVALID-ORDER-266 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 s + 2 C_2 R_4 s + C_2 R_5 s + R_4 g_m + R_5 g_m + 1 \right)}$$

10.267 INVALID-ORDER-267 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

10.268 INVALID-ORDER-268 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_5 R_2 s^3 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 - C_2 R_2 s - C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{2 \left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 R_2 s^3 + 2 C_2 C_5 L_5 R_4 s^3 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 + C_2 R_2 R_4 g_m s + C_2 R_2 s + 2 C_2 R_4 s + C_5 L_5 R_4 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + R_4 g_m + 1 \right)}$$

10.269 INVALID-ORDER-269 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 + C_5 R_4 g_m s + C_5 R_5 g_m$$

10.270 INVALID-ORDER-270 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_5 R_2 R_5 s^3 + C_2 L_5 R_2 s^2 + C_2 L_5 R_2 s^2 + C_2 L_5 R_2 s^2 + C_2 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5 \right)}{2 \left(C_2 C_5 L_5 R_2 R_4 R_5 g_m s^3 + C_2 C_5 L_5 R_4 R_5 s^3 + 2 C_2 C_5 L_5 R_4 R_5 s^3 + C_2 L_5 R_2 R_4 g_m s^2 + C_2 L_5 R_2 s^2 + 2 C_2 L_5 R_4 s^2 + C_2 L_5 R_2 s^2 + 2 C_2 L_5 R_4 s^2 + C_2 L_5 R_2 s^2 + 2 C_2 L_5 R_4 s^2 + C_2 L_5 R_2 s^2 + 2 C_2 L_5 R_4 s^2 + C_2 L_5 R_2 s^2 + 2 C_2 L_5 R_4 s^2 + C_2 L_5 R_2 s^2 + C_2 R_4 R_5 g_m s + C_2 R_4 R_5 g_m s + C_5 L_5 R_4 R_5 g_m s^2 + C_5 L_5 R_4 R_5 g_m s + L_5 R_5$$

10.271 INVALID-ORDER-271 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 R_5 g_m s^3 - C_2 C_5 L_5 R_2 s^3 + C_2 L_5 R_2 s^3 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 + C_2 R_2 g_m s^2 + C_2 L_5 s^2 + C_2 R_2 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 \left(C_2 C_5 L_5 R_2 R_4 g_m s^3 + C_2 C_5 L_5 R_2 s^3 + 2 C_2 C_5 L_5 R_4 s^3 + C_2 C_5 L_5 R_5 s^3 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s^2 + C_5 L_5 R_4 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5$$

10.272 INVALID-ORDER-272 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_5 R_2 R_5 g_m s^3 - C_2 C_5 L_5 R_2 s^3 + C_2 C_5 R_2 R_5 s^2 + C_2 C_5 R_2 R_5 s^2 + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 R_$$

10.273 INVALID-ORDER-273 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_2C_5R_2s^2 + C_2R_2g_ms + C_2s - C_5s + g_m}{2s\left(C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.274 INVALID-ORDER-274 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_2C_5R_2R_5s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s - C_5R_5s + R_5g_m - 1}{2\left(C_2C_4C_5R_2R_5s^3 + C_2C_4R_2S^2 + C_2C_4R_5s^2 + C_2C_4R_5s^2 + C_2C_5R_2g_ms^2 + 2C_2C_5R_5s^2 + C_2R_2g_ms + 2C_2s + C_4C_5R_5s^2 + C_4R_5g_ms + C_4s + C_5R_5g_ms + g_m\right)}$$

10.275 INVALID-ORDER-275
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m}{2s\left(C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_5s^2 + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5R_5g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.276 INVALID-ORDER-276
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m}{2s\left(C_2C_4C_5L_5R_2g_ms^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_5g_ms^2 + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.277 INVALID-ORDER-277
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_5R_2s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 - C_2R_2s - C_5L_5s^2 + L_5g_ms - 1}{2\left(C_2C_4C_5L_5R_2s^4 + C_2C_4L_5R_2g_ms^3 + C_2C_4L_5s^3 + C_2C_4R_2s^2 + C_2C_5L_5R_2g_ms^3 + 2C_2C_5L_5s^3 + C_2R_2g_ms + 2C_2s + C_4C_5L_5s^3 + C_4L_5g_ms^2 + C_4s + C_5L_5g_ms^2 + g_m\right)}$$

10.278 INVALID-ORDER-278
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m}{2s\left(C_2C_4C_5L_5g_ms^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_5g_ms^2 + C_4C_5R_5g_ms + C_4C_5s + C_4G_5s + C_$$

10.279 INVALID-ORDER-279
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_5R_2R_5s^3 + C_2L_5R_2s^2 + C_2L_5R_2s^2 + C_2L_5R_2s^2 + C_2L_5R_5s^2 - C_2R_2R_5s - C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5}{2\left(C_2C_4C_5L_5R_2R_5s^4 + C_2C_4L_5R_2s^3 + C_2C_4L_5R_2s^3 + C_2C_4L_5R_2s^3 + C_2C_4L_5R_2s^3 + C_2C_4L_5R_2s^3 + C_2C_4L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_4L_5R_2s^3 + C_4C_5L_5R_2s^3 + C$$

10.280 INVALID-ORDER-280
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + C_2R_2g_ms - C_2R_2s + C_2R_5s + C_5L_5s^2 + L_5g_ms + R_5g_m - 1}{2\left(C_2C_4C_5L_5R_2g_ms^4 + C_2C_4C_5L_5R_2s^4 + C_2C_4L_5R_2g_ms^3 + C_2C_4L_5s^3 + C_2C_4R_2s^2 + C_2C_4R_2$$

10.281 INVALID-ORDER-281
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_5R_2s^3 + C_2C_5R$$

10.282 INVALID-ORDER-282
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m \right)}{2 \left(C_2 C_4 C_5 R_2 R_4 s^3 + C_2 C_4 R_2 R_4 g_m s^2 + C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 R_2 g_m s + C_2 s + C_4 C_5 R_4 s^2 + C_4 R_4 g_m s + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

10.283 INVALID-ORDER-283
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 R_2 R_5 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 C_5 R_2 R_4 R_5 s^3 + C_2 C_4 R_2 R_4 R_5 g_m s^2 + C_2 C_4 R_4 R_5 s^2 + C_2 C_5 R_2 R_4 R_5 g_m s^2 + C_2 C_5 R_2 R_4 g_m s + C_2 R_2 R_4$$

```
10.284 INVALID-ORDER-284 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_4 \left( C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left( C_2 C_4 C_5 R_2 R_4 R_5 g_m s^3 + C_2 C_4 C_5 R_4 R_5 s^3 + C_2 C_4 R_2 R_4 g_m s^2 + C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5 R_2 R_5 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_4 s^2 + C_4 C_5 R_4 R_5 g_m s^2 + C_4 C_5 R_5 g_m s^2 +
10.285 INVALID-ORDER-285 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_4 \left( C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 \left( C_2 C_4 C_5 L_5 R_2 R_4 g_m s^4 + C_2 C_4 C_5 L_5 R_4 s^4 + C_2 C_4 C_5 R_2 R_4 g_m s^2 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 R_2 g_m s + C_2 s + C_4 C_5 L_5 R_4 g_m s^3 + C_4 C_5 R
10.286 INVALID-ORDER-286 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R_4\left(-C_2C_5L_5R_2s^3+C_2L_5R_2g_ms^2+C_2L_5s^2-C_2R_2s-C_5L_5s^2+L_5g_ms-1\right)
H(s) = \frac{R_4 \left( -C_2 C_5 L_5 R_2 s^3 + C_2 L_5 s^2 - C_2 R_2 s - C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{2 \left( C_2 C_4 C_5 L_5 R_2 R_4 s^4 + C_2 C_4 L_5 R_2 R_4 g_m s^3 + C_2 C_4 L_5 R_4 s^3 + C_2 C_5 L_5 R_2 s^3 + 2 C_2 C_5 L_5 R_4 s^3 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 + C_2 R_2 s + 2 C_2 R_4 s + C_4 C_5 L_5 R_4 s^3 + C_4 L_5 R_4 g_m s^2 + C_5 L_5 s^2 + C_5 L_5 R_4 g_m s^2 + C_5 L_5 R_5 g_m s^2 + 
10.287 INVALID-ORDER-287 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_4 \left( C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 s^2 + C_2 C_5 R_2 s^2 + C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left( C_2 C_4 C_5 L_5 R_2 R_4 g_m s^4 + C_2 C_4 C_5 L_5 R_4 s^4 + C_2 C_4 C_5 R_2 R_4 g_m s^3 + C_2 C_4 R_4 s^3 + C_2 C_5 R_2 R_4 g_m s^3 + C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5
10.288 INVALID-ORDER-288 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R_4 \left( -C_2 C_5 L_5 R_2 R_5 s^3 + C_2 L_5 R_2 R_5 g_m s^2 - C_2 L_5 R_2 s^2 + C_2 L_5 R_5 s^2 - C_2 R_2 R_5 s - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 s^2 + L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m 
                                                     \frac{R_4 \left(-C_2C_5L_5R_2R_5s^2 + C_2L_5R_2R_5g_ms^3 - C_2L_5R_2s^3 + C_2L_5R_2s^3 + C_2L_5R_2s^3 + C_2L_5R_5s - C_2R_2R_5s - C_5L_5R_5s^3 + L_5R_5g_ms^3 + C_2C_4L_5R_2R_4R_5s^4 + C_2C_4L_5R_2R_4S^3 + C_2C_4L_5R_2R_4S^3 + C_2C_4L_5R_2R_4S^3 + C_2C_4L_5R_2R_4S^3 + C_2C_4L_5R_2R_4S^3 + C_2C_5L_5R_2R_4S^3 + C_2C_5L_5R_2R_4R_5S^3 + C_2C_5L_5R_4R_5S^3 + C_2C_5L_5R_2R_4R_5S^3 + C_2C_5L_5R_5R_5S^3 + C_2C_5L_5R_5R_
10.289 INVALID-ORDER-289 Z(s) = \left(\infty, R_2 + \frac{1}{C_{2s}}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R_4 \left( C_2 C_5 L_5 R_2 R_5 g_m s^3 - C_2 C_5 L_5 R_2 s^3 + C_2 C_5 L_5 R_5 s^3 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 + C_2 R_2 R_5 g_m s - C_2 C_5 L_5 R_5 g_m s^3 \right) + C_2 C_5 L_5 R_5 g_m s^3 + C_2 C_
H(s) = \frac{R_4 \left( \cup_2 \cup_5 L_5 R_2 R_5 g_m s - \cup_2 \cup_5 L_5 R_1 g_s + \cup_2 \cup_5 L_5 R_2 R_3 + \cup_2 \cup_5 L_5 R_2 R_3 + \cup_2 \cup_5 L_5 R_2 R_3 + \cup_2 \cup_5 R_3 R_3 + \cup_2 C_3 R_3 R_3 R_3 + \cup_2 C_3 R_3 R_3 + 
10.290 INVALID-ORDER-290 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R_4 \left( C_2 C_5 L_5 R_2 R_5 g_m s^3 - C_2 C_5 L_5 R_2 s^3 + C_2 C_5 L_5 R_5 s^3 - C_2 C_5 R_2 R_5 s^2 + C_2 R_2 R_5 s^3 \right)
H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}S^{3} + C_{2}C_{4}R_{4}R_{5}s^{2} + C_{2}C_{5}L_{5}R_{2}S^{3} + C_{2}C_{5}L_{5}R_{2}S^{3
```

 $H(s) = \frac{(C_4R_4s+1)\left(-C_2C_5R_2s^2 + C_2R_2g_ms + C_2s - C_5s + g_m\right)}{2s\left(C_2C_4C_5R_2R_4g_ms^2 + C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_4s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5R_4g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$ $\mathbf{10.292} \quad \mathbf{INVALID-ORDER-292} \ Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2s}, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$

10.291 INVALID-ORDER-291 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_2C_5R_2R_5s^2 - C_2R_2R_5g_ms + C_2R_2s - C_2R_5s + C_5R_5s - R_5g_m + 1\right)}{2\left(C_2C_4C_5R_2R_4R_5g_ms^3 + C_2C_4C_5R_2R_5s^3 + 2C_2C_4R_2R_4g_ms^2 + C_2C_4R_2s^2 + 2C_2C_4R_4s^2 + C_2C_4R_5s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + 2C_2s + C_4C_5R_4R_5g_ms^2 + C_4C_5R_5s^2 + C_4R_4g_ms + C_4R_5g_ms^2 + C_4C_5R_5s^2 + C_4R_5g_ms^2 + C_5R_5g_ms^2 + C_5R_5g_ms$

```
10.293 INVALID-ORDER-293 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                       H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5R_2R_4g_ms^2 + C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_4s^2 + C_2C_4C_5R_5s^2 + C_2C_4s + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5R_4g_ms + C_4C_5R_5g_ms 
10.294 INVALID-ORDER-294 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                       H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_5g_ms^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5R_2g_ms^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_4s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_5g_ms^2 + C_4C_5R_4g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}
10.295 INVALID-ORDER-295 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (C_4R_4s+1)(C_2C_5L_5R_2s^3-C_2L_5R_2g_ms^2-C_2L_5s^2+C_2R_2s+C_5L_5s^2-L_5g_ms+1)
H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_5R_2s^3 - C_2L_5R_2g_ms^2 - C_2L_5s^2 + C_2R_2s + C_5L_5s^2 - L_5g_ms + 1\right)}{2\left(C_2C_4C_5L_5R_2g_ms^4 + C_2C_4C_5L_5R_2s^4 + 2C_2C_4L_5R_2g_ms^3 + C_2C_4L_5s^3 + C_2C_4R_2s^2 + 2C_2C_4R_4s^2 + C_2C_5L_5R_2g_ms^3 + 2C_2C_5L_5s^3 + C_2R_2g_ms^3 + 2C_2C_5L_5s^3 + C_4C_5L_5s^3 + C_4C_5L_
10.296 INVALID-ORDER-296 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2S_2g_ms + C_2S + C_5S_2g_ms - C_5S + g_m\right)}{2s\left(C_2C_4C_5L_5R_2g_ms^3 + C_2C_4C_5R_2g_ms^2 + C_2C_4C_5R_2s^2 + C_2C_
10.297 INVALID-ORDER-297 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \left(C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{5}R_{2}R_{5}s^{3}-C_{2}L_{5}R_{2}R_{5}g_{m}s^{2}+C_{2}L_{5}R_{2}s^{2}-C_{2}L_{5}R_{5}s^{2}+C_{2}R_{2}R_{5}s+C_{5}L_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s^{2}+C_{5}R_{5}s
                                                        \frac{(C_4R_4s+1)(C_2C_5L_5R_2R_4s-6g_ms^4+C_2L_5R_2s-C_2L_5R_2s+C_3L_5R_4s^4+C_2L_5R_2s^4+C_2L_5R_2s^4+C_2L_5R_2s^4+C_2L_5R_2s^4+C_2L_5R_2s^4+C_2L_5R_2s^4+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^3+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R_2s^2+C_2L_5R
10.298 INVALID-ORDER-298 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
H(s) = \frac{(C_4R_4s+1)\left(C_2C_5L_5R_2S_3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2L_5S^2 + C_2R_2S_2g_ms^2 + C_2L_5s^2 + C_2R_2S_2g_ms - C_2R_2s + C_2R_5s + C_5L_5S_2g_ms^2 - C_5L_5s^2 + L_5R_5g_ms^2 - C_5L_5s^2 + L_5R_5g_ms^2 + C_2C_4C_5L_5R_2S_2g_ms^3 + C_2C_4C_5L_5R_2S_2g_ms^3 + C_2C_4C_5L_5S_3s^4 + 
10.299 INVALID-ORDER-299 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (C_4R_4s+1)(C_2C_5L_5R_2R_5g_ms^3-C_2C_5L_5R_2s^3+C_2C_5L_5R_5s^3-C_2C_5R_2R_5s^2+C_2R_2R_5g_ms-C_2R_2S_5s^3+C_2C_5R_2S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_5s^3+C_2C_5S_
H(s) = \frac{(24745 + 1)(22532342569m^6 - 2253234269m^6 - 225323426m^6 - 22532346m^6 - 2253234
10.300 INVALID-ORDER-300 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                              H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_4R_2q_ms^3 + 2C_2C_4L_4s^3 + C_2C_4R_2s^2 + C_2C_4R_2s^2 + C_2C_4R_5s^2 + C_2R_2q_ms + 2C_2s + C_4L_4q_ms^2 + C_4R_5q_ms + C_4s + q_m\right)}
10.301 INVALID-ORDER-301 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
```

49

 $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(-C_2C_5R_2s^2 + C_2R_2g_ms + C_2s - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_4R_2g_ms^3 + 2C_2C_4C_5L_4s^3 + C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5s + C_4g_m + C_5g_m\right)}$

```
10.302 INVALID-ORDER-302 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5R_2R_5s^2 - C_2R_2R_5g_ms + C_2R_2s - C_2R_5s + C_5R_5s - R_5g_m + 1\right)}{2\left(C_2C_4C_5L_4R_2S_g_ms^4 + 2C_2C_4C_5L_4R_5s^4 + C_2C_4C_5R_2S^3 + C_2C_4L_4S^3 + C_2C_4R_2S^2 + C_2C_4R_2s^2 + C_2C_4R_5s^2 + C_2C_5R_2S^2 + C_2C_5R_5s^2 + C_2C_5R_5s^2 + C_2C_5R_5s^2 + C_2C_4R_5s^2 + C_2C_5R_5s^2 + C_2C_4R_5s^2 + C_2C_4R_
10.303 INVALID-ORDER-303 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_4R_2g_ms^3 + 2C_2C_4C_5L_4s^3 + C_2C_4C_5R_2g_ms^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_5s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5R_5g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}
10.304 INVALID-ORDER-304 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                               H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_4s^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5L_5g_ms^2 + C_4C_5s + C_4g_m + C_5g_m\right)}
10.305 INVALID-ORDER-305 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_2s^3 - C_2L_5s^2 + C_2R_2s + C_5L_5s^2 - L_5g_ms + 1\right)}{2\left(C_2C_4C_5L_4L_5R_2g_ms^5 + 2C_2C_4C_5L_4L_5s^5 + C_2C_4C_5L_5R_2s^4 + C_2C_4L_4R_2g_ms^3 + 2C_2C_4L_5s^3 + C_2C_4L_5s^3 + C_2C_4L_
10.306 INVALID-ORDER-306 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                              \frac{\left(C_{4}L_{4}s^{2}+1\right)\left(C_{2}C_{5}L_{5}R_{2}g_{m}s^{3}+C_{2}C_{5}L_{5}s^{3}+C_{2}C_{5}R_{2}g_{m}s^{2}-C_{2}C_{5}R_{2}s^{2}+C_{2}C_{5}R_{5}s^{2}+C_{2}R_{2}g_{m}s+C_{2}s+C_{5}L_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{2s\left(C_{2}C_{4}C_{5}L_{4}S_{2}g_{m}s^{3}+C_{2}C_{4}C_{5}L_{5}S_{3}+C_{2}C_{4}C_{5}R_{2}g_{m}s^{2}+C_{2}C_{4}C_{5}R_{2}s^{2}+C_{2}C_{4}C_{5}R_{2}s^{2}+C_{2}C_{4}C_{5}R_{2}s^{2}+C_{2}C_{4}S_{2}g_{m}s+C_{2}C_{5}S_{2}g_{m}s+C_{2}C_{5}S_{2}g_{m}s+C_{2}C_{5}S_{2}g_{m}s+C_{2}C_{5}S_{2}g_{m}s+C_{2}C_{5}S_{2}g_{m}s+C_{2}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{m}s+C_{4}C_{5}S_{2}g_{
10.307 INVALID-ORDER-307 Z(s) = \left(\infty, R_2 + \frac{1}{C_{2s}}, \infty, L_4 s + \frac{1}{C_{4s}}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (C_4L_4s^2+1) (C_2C_5L_5R_2R_5s^3-C_2L_5R_2R_5g_ms^2+C_2L_5R_2s^2-C_2L_5R_5s^2+C_2R_2R_5s+C_5L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2L_5R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C
H(s) = -\frac{( \cup_4 L_4 s \ + 1) ( \cup_2 \cup_5 L_5 R_2 R_5 s - \cup_2 L_5 R
10.308 INVALID-ORDER-308 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5R_5g_ms^2 - C_5L_5s^2 + L_5R_5g_ms^3 + C_5R_5g_ms^3 + C_5R_5
10.309 INVALID-ORDER-309 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \left(C_{4}L_{4}s^{2}+1\right)\left(C_{2}C_{5}L_{5}R_{2}R_{5}g_{m}s^{3}-C_{2}C_{5}L_{5}R_{2}s^{3}+C_{2}C_{5}L_{5}R_{5}s^{3}-C_{2}C_{5}R_{2}R_{5}s^{2}+C_{2}R_{2}R_{5}g_{m}s-C_{2}R_{5}R_{5}s^{3}+C_{2}C_{5}L_{5}R_{5}s^{3}+C_{2}C_{5}L_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C_{5}R_{5}s^{3}+C_{2}C
H(s) = \frac{(C_4L_4s + 1)(C_2C_5L_5R_2g_ms^5 - C_2C_5L_5R_2s + 
10.310 INVALID-ORDER-310 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                                           H(s) = \frac{L_4 s \left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_4 R_2 R_5 g_m s^3 + C_2 C_4 L_4 R_2 s^3 + C_2 L_4 R_5 g^3 + C_2 L_4 R_2 g_m s^2 + 2 C_2 L_4 s^2 + C_2 R_2 g_m s + C_2 R_2 s + C_2 R_5 s + C_4 L_4 R_5 g_m s^2 + C_4 L_4 s^2 + L_4 g_m s + R_5 g_m + 1\right)}
```

```
10.311 INVALID-ORDER-311 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                       H(s) = \frac{L_4 s \left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{2 \left(C_2 C_4 C_5 L_4 R_2 s^4 + C_2 C_4 L_4 R_2 g_m s^3 + C_2 C_5 L_4 R_2 g_m s^3 + 2 C_2 C_5 L_4 s^3 + C_4 C_5 L_4 s^3 + C_4 L_4 g_m s^2 + C_5 L_4 g_m s^2 + C_5 s + g_m\right)}
10.312 INVALID-ORDER-312 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{L_{4}s\left(-C_{2}C_{5}R_{2}R_{5}s^{2} + C_{2}R_{2}R_{5}g_{m}s - C_{2}R_{2}s + C_{2}R_{5}s - C_{5}R_{5}s + R_{5}g_{m} - 1\right)}{2\left(C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}g_{m}s^{3} + C_{2}C_{4}L_{4}R_{2}s^{3} + C_{2}C_{5}L_{4}R_{5}g_{m}s^{3} + 2C_{2}C_{5}L_{4}R_{5}s^{3} + C_{2}C_{5}L_{4}R_{5}s^{3} + C_{2}C_{5}L_{4}R_{5}s^{3} + C_{2}C_{5}L_{4}R_{5}g_{m}s^{2} + 2C_{2}L_{4}S^{2} + C_{2}R_{5}g_{m}s + C_{2}R_{5}s + C_{4}C_{5}L_{4}R_{5}s^{3} + C_{4}L_{4}R_{5}g_{m}s^{2} + C_{5}L_{4}R_{5}g_{m}s^{2} + C_{5}L_{5}R_{5}g_{m}s^{2} + C_{5}L_{5}R_{5}g_{m}s^{2} + C_{5}L_{5}R_{5}g_{m}s^{2} + C_{5}L_{5}R_{
10.313 INVALID-ORDER-313 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_{4}s\left(C_{2}C_{5}R_{2}R_{5}g_{m}s^{2} - C_{2}C_{5}R_{2}s^{2} + C_{2}C_{5}R_{5}s^{2} + C_{2}R_{2}g_{m}s + C_{2}s + C_{5}R_{5}g_{m}s - C_{5}s + g_{m}\right)}{2\left(C_{2}C_{4}C_{5}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}S^{3} + C_{2}
10.314 INVALID-ORDER-314 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{5}s^{3} - C_{2}C_{5}R_{2}s^{2} + C_{2}R_{2}g_{m}s + C_{2}s + C_{5}L_{5}g_{m}s^{2} - C_{5}s + g_{m}\right)}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{5}s^{3} + C_{2}C_{5}L_{5}s^{3} + C_{2}C_{5}L_{5}s^{3} + C_{2}C_{5}L_{4}S_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}S_{2}g_{m}s^{3} + C_{2}C_{5}L_{5}S_{2}s^{2} + C_{2}R_{2}g_{m}s + C_{2}s + C_{4}C_{5}L_{4}S_{3}s^{4} + C_{4}C_{5}L_{4}S_{3}s^{2} + C_{5}L_{5}g_{m}s^{2} + C_{5}L_{5}g_{m}
10.315 INVALID-ORDER-315 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                        \frac{L_{4}s\left(-C_{2}C_{5}L_{5}R_{2}s^{3}+C_{2}L_{5}R_{2}g_{m}s^{2}+C_{2}L_{5}s^{2}-C_{2}R_{2}s-C_{5}L_{5}s^{2}+L_{5}g_{m}s-1\right)}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5}+C_{2}C_{4}L_{4}L_{5}S^{4}+C_{2}C_{5}L_{4}L_{5}R_{2}g_{m}s^{4}+2C_{2}C_{5}L_{4}L_{5}R_{2}g_{m}s^{4}+2C_{2}C_{5}L_{4}L_{5}S^{4}+C_{2}C_{5}L_{5}R_{2}s^{3}+C_{2}L_{4}R_{2}g_{m}s^{2}+C_{2}L_{5}R_{2}g_{m}s^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{2}+C_{2}L_{5}S^{
10.316 INVALID-ORDER-316 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{5}s^{3} + C_{2}C_{5}R_{2}s^{2} + C_{2}C_{5}R_{2}s^{2} + C_{2}C_{5}R_{5}s^{2} + C_{2}R_{2}g_{m}s + C_{2}s + C_{5}L_{5}g_{m}s^{2} + C_{5}R_{5}g_{m}s - C_{5}s + g_{m}\right)}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}R_{2}s^{4} + C_{2}C_{5}L_{4}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}s^{3} + C_{2}C_{5}L_{5}s^{3} + C_{2}C_{
10.317 INVALID-ORDER-317 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
```

 $H(s) = \frac{L_{4}s\left(-C_{2}C_{5}L_{5}R_{2}R_{5}s^{3} + C_{2}L_{5}R_{2}R_{5}g_{m}s^{2} - C_{2}L_{5}R_{2}s^{2} + C_{2}L_{5}R_{5}s^{2} - C_{2}R_{2}R_{5}s - C_{5}L_{5}R_{5}s^{2} + L_{5}R_{5}g_{m}s^{2} - C_{2}L_{5}R_{5}s^{2} + C_{2}L_{5$

10.318 INVALID-ORDER-318 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{5}R_{2}R_{5}g_{m}s^{3} - C_{2}C_{5}L_{5}R_{2}s^{3} + C_{2}C_{5}L_{5}R_{2}s^{3} + C_{2}L_{5}R_{2}g_{m}s^{2} + C_{2}L_{5}s^{2} + C_{2}R_{2}g_{m}s^{2} + C_{2}L_{5}s^{2} + C_{2}R_{2}g_{m}s^{2} + C_{2}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{4}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{5}R_{2}s^{3} +$

10.319 INVALID-ORDER-319 $Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$

 $H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{5}R_{2}R_{5}g_{m}s^{3} - C_{2}C_{5}L_{5}R_{2}s^{3} + C_{2}C_{5}L_{5}R_{5}s^{3} - C_{2}C_{5}R_{2}R_{5}s^{2} + C_{2}R_{5}s^{2} + C_{2}R_{5}s^{2}$

```
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_4R_2g_ms^3 + 2C_2C_4L_4s^3 + C_2C_4R_2g_ms^2 + C_2C_4R_2s^2 + 2C_2C_4R_4s^2 + C_2C_4R_5s^2 + C_2R_2g_ms + 2C_2s + C_4L_4g_ms^2 + C_4R_4g_ms + C_4R_5g_ms + C_4s + g_m\right)}
10.321 INVALID-ORDER-321 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                       H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(-C_2C_5R_2s^2 + C_2R_2g_ms + C_2s - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_4R_2g_ms^3 + 2C_2C_4C_5L_4s^3 + C_2C_4C_5R_2R_4g_ms^2 + C_2C_4C_5R_4s^2 + 2C_2C_4C_5R_4s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5R_4g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}
10.322 INVALID-ORDER-322 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (C_4L_4s^2 + C_4R_4s + 1)(C_2C_5R_2R_5s^2 - C_2R_2R_5g_ms + C_2R_2s - C_2R_5s + C_5R_5s - R_5g_m + 1)
                                              \frac{( \cup_4 L_4 s \ + \cup_4 R_4 s + 1) ( \cup_2 \cup_5 R_2 R_5 s \ - \cup_2 R_2 R_5 g_m s + \cup_2 I_2 s - \cup_2 I_5 s + \cup_5 I_5 s - I_1 s g_m + 1)}{2 ( C_2 C_4 C_5 L_4 R_2 S_6 g_m s^4 + 2 C_2 C_4 C_5 L_4 R_5 s^4 + C_2 C_4 C_5 R_2 R_5 S^3 + 2 C_2 C_4 C_5 R_4 R_5 s^3 + 2 C_2 C_4 L_4 s^3 + C_2 C_4 R_2 S_6 g_m s^2 + C_2 C_4 R_2 S^2 + 2 C_2 C_4 R_4 s^2 + C_2 C_4 R_5 s^2 + C_2 C_5 R_5 s^2 + C
10.323 INVALID-ORDER-323 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_4R_2g_ms^3 + 2C_2C_4C_5L_4s^3 + C_2C_4C_5R_2R_2g_ms^2 + C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4S_2g_ms + C_2C_5R_2g_ms + C_
10.324 INVALID-ORDER-324 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_4R_2g_ms^3 + 2C_2C_4C_5L_5s^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5R_2g^2 + 2C_2C_4C_5R_4s^2 + C_2C_4R_2g_ms + C_2C_4s + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5L_5g_ms^2 + C_4C_5R_4g_ms + C_4C_5s + C_4g_ms + C_4C_5s + C_4G_5s +
10.325 INVALID-ORDER-325 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (C_4L_4s^2 + C_4R_4s + 1)(C_2C_5L_5R_2s^3 - C_2L_5R_2g_ms^2 - C_2L_5s^2 + C_2R_2s + C_5L_5s^2 - L_5g_ms + 1)
H(s) = -\frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5R_2s^3 - C_2L_5s^2 + C_2R_2s + C_5L_5s^2 - L_5g_ms + 1\right)}{2\left(C_2C_4C_5L_4L_5R_2g_ms^5 + 2C_2C_4C_5L_5R_2g_ms^4 + C_2C_4C_5L_5R_2s^4 + 2C_2C_4C_5L_5R_2s^4 + 2C_2C_4L_5R_2g_ms^3 + 2C_2C_4L_5R_2g_ms^3 + C_2C_4L_5R_2g_ms^3 + C_2C_4L_5R_2g_ms^3 + C_2C_4R_2s^2 + 2C_2C_4R_4s^2 + C_2C_5L_5R_2g_ms^3 + 2C_2C_5L_5R_2g_ms^3 + 2C_2C_5L_5R_2g_ms^3 + 2C_2C_4L_5R_2g_ms^3 + 2C_2C_4R_2s^2 + 2C_2C_4R_4s^2 + 2C_2C_4R_4s^2 + 2C_2C_5L_5R_2g_ms^3 + 2C_2C_5L_5R_2g_ms^3 + 2C_2C_4R_2s^2 + 2C_2C_4R
10.326 INVALID-ORDER-326 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2g_ms^2 - C_2C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_
10.327 INVALID-ORDER-327 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                               -\frac{(1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 1.1 + 
10.328 INVALID-ORDER-328 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{5}R_{2}R_{5}g_{m}s^{3}-C_{2}C_{5}L_{5}R_{2}s^{3}+C_{2}C_{5}L_{5}R_{5}s^{3}+C_{2}L_{5}R_{2}g_{m}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_{5}s^{2}+C_{2}L_
```

10.320 INVALID-ORDER-320 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

```
10.329 INVALID-ORDER-329 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
```

 $H(s) = \frac{(24.24 + 2.2$

10.330 INVALID-ORDER-330 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$

 $H(s) = \frac{L_4 R_4 s \left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_4 R_2 R_4 g_m s^3 + C_2 C_4 L_4 R_2 R_4 g_m s^2 + C_2 L_4 R_2 g_m s^2 + C_2 L_4 R_2 s^2 + 2 C_2 L_4 R_5 s^2 + C_2 R_2 R_4 g_m s + C_2 R_2 R_4 g_m s^2 + C_4 L_4 R_4 g_m s + L_4 R_5 g_m s + L_$

10.331 INVALID-ORDER-331 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$

 $L_4R_4s\left(-C_2C_5R_2s^2+C_2R_2g_ms+C_2s-C_5s+g_m\right)$ $H(s) = \frac{L_4 R_4 s \left(-C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{2 \left(C_2 C_4 C_5 L_4 R_2 R_4 g_m s^3 + C_2 C_4 L_4 R_4 s^3 + C_2 C_5 L_4 R_2 s^3 + 2 C_2 C_5 L_4 R_2 s^3 + 2 C_2 C_5 L_4 R_2 s^3 + 2 C_2 C_5 L_4 R_2 s^2 + C_2 L_4 s^2 + C_2 L_4 R_2 g_m s^2 + C_2 L_4 R_2 g_m$

10.332 INVALID-ORDER-332 $Z(s) = \left(\infty, R_2 + \frac{1}{C_{2s}}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

 $L_4R_4s\left(-C_2C_5R_2R_5s^2+C_2R_2R_5g_ms-C_2R_2s+C_2R_5s-C_5R_5s+R_5g_m-1\right)$ $H(s) = \frac{L_4 R_4 s \left(-C_2 C_5 R_2 R_5 s^4 + C_2 R_4 R_5 g_m s^3 + C_2 R_4 S_5 s^4 + C_2 R_4 R_5 g_m s^3 + C_2 R_4 S_5 s^4 + C_2 R_4 R_5 g_m s^3 + C_2 R_4 R_5 g_m s^3 + C_2 R_4 R_5 g_m s^3 + C_2 R_4 R_5 R_5 g_$

10.333 INVALID-ORDER-333 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $L_4R_4s\left(C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C$ $H(s) = \frac{L_4 R_4 s \left(C_2 C_5 R_2 R_5 g_m s - C_2 C_5 R_2 s + C_2 C_5 R_2 s + C_2 C_5 R_2 s + C_2 R_2 g_m s + C_2 s + C_5 R_5 g_m s - C_5 R_2 g_m s - C_5 R_2 g_m s - C_5 R_2 g_m s - C_5 R_4 g_m s - C_5 R_5 g_m s - C_5 R_$

10.334 INVALID-ORDER-334 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_4 R_4 s \left(C_2 C_5 L_5 R_2 g_m s^\circ + C_2 C_5 L_5 s^\circ - C_2 C_5 R_2 s^\circ + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^\circ - C_5 C_5 R_2 s^\circ + C_2 C_5 L_4 R_2 s^\circ + C_2 C_5 L$

10.335 INVALID-ORDER-335 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $L_4R_4s\left(-C_2C_5L_5R_2s^3+C_2L_5R_2g_ms^2+C_2L_5s^2-C_2R_2s-C_5L_5s^2+L_5g_ms-1\right)$

10.336 INVALID-ORDER-336 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $L_4R_4s (C_2C_5L_5R_2g_ms_1)$

 $\frac{\mathcal{L}_{4}\mathcal{L}_{4}\mathcal{L}_{5}}{2\left(C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{5}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{4}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{R}_{2}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{R}_{4}g_{m}s^{3}+C_{2}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}$

10.337 INVALID-ORDER-337 $Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}S^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}S^{5} + C_{2}C_{5}L_{4}L_{5}R_{2}R_{4}S^{5} + C_{2}C_{5}L_{4}L_{5}R_{2}S^{5} + C_$

```
10.338 INVALID-ORDER-338 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{4}g_{m}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{4}s^{4} + C_{2}C_{4}L_{4}R_{2}R_{4}s^{3} + C_{2}C_{4}L_{4}R_{2}R_{4}s^{3} + C_{2}C_{4}L_{4}R_{2}R_{4}s^{3} + C_{2}C_{5}L_{4}L_{5}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{4}L_{5}R_{2}s^{4} +$

10.339 INVALID-ORDER-339
$$Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}R_{2}R_{4}S^{3} + C_{2}C_{4}L_{4}R_{2}R_{4}S^{3} + C_{2}C_{4}L_{4}R_{2}R_{4}S^{3} + C_{2}C_{4}L_{4}R_{2}R_{4}S^{3} + C_{2}C_{5}L_{4}L_{5}R_{2}S^{4} + C_{2$

10.340 INVALID-ORDER-340
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_4R_2R_5g_ms^3 + C_2C_4L_4R_2s^3 + 2C_2C_4L_4R_4s^3 + C_2C_4L_4R_2s^3 + 2C_2L_4s^2 + C_2R_2g_ms + C_2R_2s + 2C_2R_4s + 2C_2R_4s$

10.341 INVALID-ORDER-341
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(-C_2C_5R_2s^2 + C_2R_2g_ms + C_2s - C_5s + g_m\right)}{2\left(C_2C_4C_5L_4R_2g_ms^4 + C_2C_4L_4S^4 + C_2C_4L_4R_2g_ms^3 + C_2C_5L_4R_2g_ms^3 + 2C_2C_5L_4s^3 + C_2C_5R_2s^2 + 2C_2C_5R_4s^2 + C_2R_2g_ms + C_2s + C_4C_5L_4R_4g_ms^3 + C_4C_5L_4s^3 + C_4C_5L_4g_ms^2 + C_5L_4g_ms^2 + C_5L_4g_ms^3 + C_4C_5L_4g_ms^3 + C_4C_5L_4$

10.342 INVALID-ORDER-342
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = -\frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5R_2R_5s^2 - C_2R_2R_5g_ms + C_2C_4L_4R_2s^3 + C_2C_4L$

10.343 INVALID-ORDER-343
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5R_2R_5g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_5s^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2\left(C_2C_4C_5L_4R_2g_ms^4 + C_2C_4C_5L_4R_2g_ms^4 + C_2C_4C_5L_4R_2g_ms^3 + C_2C_5L_4R_2g_ms^3 + C_2C_5L_4R_2g_ms^3 + C_2C_5L_4R_2g_ms^3 + C_2C_5L_4R_2g_ms^3 + C_2C_5R_2R_2g_ms^2 + C_2C_5R_2s^2 + C$

10.344 INVALID-ORDER-344
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2\left(C_2C_4C_5L_4L_5R_2g_ms^5 + C_2C_4L_4S^3 + C_2C_5L_4R_2g_ms^3 + C_2C_5L_4S^3 + C_2C_5L_5s^3 + C_2C_5L_5s^3 + C_2C_5R_2s^2 + C_2C_5R_$

10.345 INVALID-ORDER-345
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

10.346 INVALID-ORDER-346
$$Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_5R_2g_ms^3 + C_2C_5L_5s^3 + C_2C_5R_2g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_2s^2 +$

```
10.347 INVALID-ORDER-347 Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
```

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{5}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}s^{4} + 2C_{2}C_{4}L_{4}L_{5}R_{2}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}s^{4} + C_{2}C$

10.348 INVALID-ORDER-348
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}L_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}s^{4} + C_{2}C_{4}L_{4}R_{2}R_{3}g_{m}s^{3} + C_{2}C_{4}L_{4}R_{2}s^{3} + C_{2$

10.349 INVALID-ORDER-349
$$Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}L_{4}R_{2}R_{4}g_{m}s^{3} + C_{2}C_{4}L_{4}R_{2}R_{5}g_{m}s^{3} + C_{2}C_{4}L_{4}R_{2}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_$

10.350 INVALID-ORDER-350
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 L_4 R_2 R_5 g_m s^3 + C_2 C_4 L_4 R_2 s^3 + 2 C_2 C_4 L_4 R_4 s^3 + C_2 C_4 L_4 R_5 s^3 + C_2 C_4 R_2 R_4 R_5 g_m s^2 + C_2 C_4 R_2 R_4 s^2 + C_2 C_4 R_2 R_4 s^2 + C_2 C_4 R_2 R_4 s^2 + C_2 R_2 R_5 g_m s + C_2 R_2$

10.351 INVALID-ORDER-351
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

10.352 INVALID-ORDER-352
$$Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)$$

 $H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_2 C_5 R_2 R_5 s^2 - C_2 R_2 R_5 s^3 + C_2 C_4 C_5 L_4 R_2 R_5 g_m s^3 + C_2 C_4 L_4 R_2 s^3 +$

10.353 INVALID-ORDER-353
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_5 s^2 + C_2 R_2 g_m s + C_4 C_5 R_5 r^2 + C_4 R_5 r^2 + C_5 R_5 r^$

10.354 INVALID-ORDER-354
$$Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 C_4 C_5 L_4 R_2 s^4 + C_2 C_4 C_5 L_5 R_2 s^4 + C_2 C_4 C_5 L_4 R_2 s^4 + C_2$

10.355 INVALID-ORDER-355
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_2 C_5 L_5 R_2 s^3 - C_2 L_5 R_2 g_m S^4 + C_2 C_4 L_4 L_5 R_2 g_m S^4 + C_2 C_4 L_4 R_2 S^3 + C_2 C_4 L_5 R_4 S^3$

10.356 INVALID-ORDER-356
$$Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C$

10.357 INVALID-ORDER-357
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}s^{4} + 2C_{2}C_{4}L_{4}L_{5}R_{2}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}s^{4$

10.358 INVALID-ORDER-358
$$Z(s) = \left(\infty, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{3}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}s^{5} + C_{2}C_{4$

10.359 INVALID-ORDER-359
$$Z(s) = \left(\infty, R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}S_{6}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{$

10.360 INVALID-ORDER-360
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2 + C_2 s - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_2 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

10.361 INVALID-ORDER-361
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_5 L_2 R_4 R_5 g_m s^3 + C_2 C_5 L_2 R_5 s^3 + 2 C_2 C_5 R_4 R_5 s^2 + C_2 L_2 R_4 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_5 R_4 R_5 g_m s + C_5 R_5 s + R_4 g_m + R_5 g_m + 1 \right)}$$

10.362 INVALID-ORDER-362
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_2 R_4 q_m s^3 + C_2 C_5 L_2 R_5 q_m s^3 + C_2 C_5 L_2 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_5 s^2 + C_2 L_2 q_m s^2 + C_2 s + C_5 R_4 q_m s + C_5 R_5 q_m s + C_5 s + q_m \right)}$$

10.363 INVALID-ORDER-363
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 L_2 g_m s^2 + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

10.364 INVALID-ORDER-364
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 L_5 s^4 + C_2 L_2 L_5 g_m s^3 - C_2 L_2 s^2 + C_2 L_5 s^2 - C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{2 \left(C_2 C_5 L_2 L_5 R_4 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + 2 C_2 C_5 L_5 R_4 s^3 + C_2 L_2 L_5 g_m s^3 + C_2 L_2 R_4 g_m s^2 + C_2 L_5 s^2 + 2 C_2 R_4 s + C_5 L_5 R_4 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + R_4 g_m + 1 \right)}$$

10.365 INVALID-ORDER-365 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s + C_5 R$

10.366 INVALID-ORDER-366 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{R_4 \left(-C_2 C_5 L_2 L_5 R_5 s^4 + C_2 L_2 L_5 R_5 g_m s^3 - C_2 L_2 L_5 s^3 - C_2 L_2 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{2 \left(C_2 C_5 L_2 L_5 R_4 R_5 g_m s^4 + C_2 C_5 L_5 R_4 R_5 s^3 + C_2 L_2 L_5 R_4 g_m s^3 + C_2 L_2 L_5 R_5 g_m s^3 + C_2 L_2 R_5 g$

10.367 INVALID-ORDER-367 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_5 g_m s^4 - C_2 C_5 L_2 L_5 s^4 + C_2 C_5 L_5 R_5 s^3 + C_2 L_2 L_5 g_m s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 L_5 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 \left(C_2 C_5 L_2 L_5 R_4 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + 2 C_2 C_5 L_5 R_4 s^3 + C_2 L_2 L_5 g_m s^3 + C_2 L_2 R_4 g_m s^2 + C_2 L_2 s^2 + C_2 L_5 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_5 L_5 R_4 g_m s^2 + C_5 L_5 R_5 g_m s^2 +$

10.368 INVALID-ORDER-368 $Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ R_4, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_5 g_m s^4 - C_2 C_5 L_2 L_5 s^4 - C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_5 L_2 L_5 R_4 g_m s^4 + C_2 C_5 L_2 L_5 R_5 g_m s^4 + C_2 C_5 L_2 R_4 R_5 g_m s^3 + C_2 C_5 L_5 R_5 s^3 + 2 C_2 C_5 L_5 R_5 s^3 + 2 C_2 C_5 L_5 R_4 s^3 + C_2 C_5 L_2 R_5 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C$

10.369 INVALID-ORDER-369 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1}{2 \left(C_2 C_4 L_2 R_5 q_m s^3 + C_2 C_4 L_2 s^3 + C_2 C_4 R_5 s^2 + C_2 L_2 q_m s^2 + 2 C_2 s + C_4 R_5 q_m s + C_4 s + q_m \right)}$$

10.370 INVALID-ORDER-370 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m}{2s\left(C_2C_4C_5L_2s^3 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5s + C_4q_m + C_5q_m\right)}$$

10.371 INVALID-ORDER-371 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_2C_5L_2R_5s^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_5s - C_5R_5s + R_5g_m - 1}{2\left(C_2C_4C_5L_2R_5s^4 + C_2C_4L_2S^3 + C_2C_4R_5s^2 + C_2C_5L_2R_5g_ms^3 + 2C_2C_5R_5s^2 + C_2L_2g_ms^2 + 2C_2s + C_4C_5R_5s^2 + C_4R_5g_ms + C_4s + C_5R_5g_ms + g_m\right)}$$

10.372 INVALID-ORDER-372 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms - C_5s + g_m}{2s\left(C_2C_4C_5L_2R_5g_ms^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5R_5s^2 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5R_5g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.373 INVALID-ORDER-373 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 - C_5s + g_m}{2s\left(C_2C_4C_5L_2sg_ms^4 + C_2C_4C_5L_2s^3 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5L_5g_ms^2 + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.374 INVALID-ORDER-374 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_2C_5L_2L_5s^4 + C_2L_2L_5g_ms^3 - C_2L_2s^2 + C_2L_5s^2 - C_5L_5s^2 + L_5g_ms - 1}{2\left(C_2C_4C_5L_2L_5s^5 + C_2C_4L_2L_5g_ms^4 + C_2C_4L_2s^3 + C_2C_4L_5s^3 + C_2C_5L_2L_5g_ms^4 + 2C_2C_5L_5s^3 + C_2L_2g_ms^2 + 2C_2s + C_4C_5L_5s^3 + C_4L_5g_ms^2 + C_4s + C_5L_5g_ms^2 + g_m\right)}$$

10.375 INVALID-ORDER-375 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m}{2s\left(C_2C_4C_5L_2S_gms^4 + C_2C_4C_5L_2S^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5R_5s^2 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + C_2C_5s + C_4C_5L_5g_ms^2 + C_4C_5R_5g_ms + C_4C_5s + C_4G_5s + C_4G_5$$

10.376 INVALID-ORDER-376 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_2C_5L_2L_5R_5s^4 + C_2L_2L_5R_5g_ms^3 - C_2L_2L_5s^3 - C_2L_2R_5s^2 + C_2L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5}{2\left(C_2C_4C_5L_2L_5R_5g_ms^4 + C_2C_4L_2L_5s^4 + C_2C_4L_2R_5s^3 + C_2C_4L_2R_5s^3 + C_2L_2L_5g_ms^4 + 2C_2C_5L_5R_5s^3 + C_2L_2R_5g_ms^2 + 2C_2L_5s^2 + 2C_2R_5s + C_4C_5L_5R_5s^3 + C_4L_5s^2 + C_4R_5s + C_5L_5R_5g_ms^2 + L_5g_ms^2 + C_5L_5R_5s^3 + C_4L_5R_5g_ms^2 +$$

10.377 INVALID-ORDER-377 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5s^3 + C_2L_2L_5g_ms^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2L_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1}{2\left(C_2C_4C_5L_2L_5g_ms^5 + C_2C_4C_5L_2S^5 + C_2C_4C_5L_5S^5 + C_2C_4C_5L_5S^5 + C_2C_4L_2S^3 + C_2C_4L_2S^3 + C_2C_4L_2S^3 + C_2C_4L_2S^3 + C_2C_4L_5s^3 + C_2C_4L_2S^3 + C_2C_4L_5s^3 + C_2C_$$

10.378 INVALID-ORDER-378 $Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$

$$H(s) = \frac{C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 - C_2C_5L_2R_5s^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1}{2\left(C_2C_4C_5L_2L_5R_5g_ms^5 + C_2C_4C_5L_2R_5s^4 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_2S^3 + C_2C_4L_2S^3 + C_2C_4L_2S^3 + C_2C_4L_2S^3 + C_2C_5L_2S_3s^4 + C_2C_5L_2S_3s^3 + C_2C_$$

10.379 INVALID-ORDER-379 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 L_2 R_4 g_m s^3 + C_2 C_4 L_2 R_4 s^3 + C_2 C_4 R_4 R_5 s^2 + C_2 L_2 R_4 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 + 2 C_2 R_4 s + C_2 R_5 s + C_4 R_4 R_5 g_m s + C_4 R_4 s + R_4 g_m + R_5 g_m + 1 \right)}$$

10.380 INVALID-ORDER-380 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2 + C_2 s - C_5 s + g_m \right)}{2 \left(C_2 C_4 C_5 L_2 R_4 s^4 + C_2 C_4 L_2 R_4 g_m s^3 + C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_2 s^3 + 2 C_2 C_5 R_4 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_4 C_5 R_4 s^2 + C_4 R_4 g_m s + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

10.381 INVALID-ORDER-381 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s - C_5 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 C_5 L_2 R_4 R_5 s^4 + C_2 C_4 L_2 R_4 R_5 g_m s^3 + C_2 C_4 L_2 R_4 s^3 + C_2 C_5 L_2 R_4 R_5 g_m s^3 + C_2 C_5 L_2 R_4 R_5 g_m s^3 + C_2 C_5 L_2 R_4 g_m s^2 + C_2 L_2 R_5 g_m s^$$

10.382 INVALID-ORDER-382 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_4 C_5 L_2 R_4 R_5 g_m s^4 + C_2 C_4 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 s + C_4 C_5 R_4 R_5 g_m s^2 + C_4 R_4 g_m s + C_5 R_4 g_m s + C_5 R_5 g_m s + C_5 R_5 g_m s^3 + C_5 R_5 g_m$$

```
 \begin{aligned} & \textbf{10.383} \quad \textbf{INVALID-ORDER-383} \ Z(s) = \left( \infty, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ L_5s + \frac{1}{C_5s}, \ \infty \right) \\ & H(s) = \frac{R_4 \left( C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2L_5g_ms^2 + C_2s + C_5L_5g_ms^2 - C_5s + g_m \right)}{2 \left( C_2C_4C_5L_2L_5R_4g_ms^5 + C_2C_4C_5L_2R_4g^ms^3 + C_2C_4L_2R_4g_ms^3 + C_2C_5L_2R_4g_ms^3 + C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5R_4s^2 + C_2L_2g_ms^2 + C_2s + C_4C_5L_5R_4g_ms^3 + C_4C_5R_4s^2 + C_4R_4g_ms + C_5L_5g_ms^2 + C_5R_4g_ms^3 + C_4C_5R_4s^2 + C_4R_4g_ms^3 + C_4C_5R_4s^2 + C_4R_4g_ms^3 + C_4C_5R_4s^3 + C_4C
```

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 S^3 + C_2$

10.386 INVALID-ORDER-386 $Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(-C_2 C_5 L_2 L_5 R_5 s^4 + C_2 L_2 L_5 R_5 g_m s^3 - C_2 L_2 L_5 s^3 - C_2 L_2 R_5 s^2 + C_2 L_5 R_5 s^2 + C_5 L_5 R_5 s^2 + L_5 R_5 g_m r^3 - C_2 L_2 L_5 R_4 R_5 r^3 + C_2 L_2 L_5 R_5 r^3 + C_2 L$

10.387 INVALID-ORDER-387 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_5 g_m s^4 - C_2 C_5 L_2 L_5 s^4 + C_2 C_5 L_5 R_5 s^3 + C_2 L_2 L_5 g_m s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 C_5 L_2 L_5 R_4 R_5 g_m s^4 + C_2 C_5 L_2 L_5 R_4 R_5 s^4 + C_2 C_5 L_2 L_5 R_4 R_5 s^4 + C_2 C_5 L_2 L_5 R_4 g_m s^4 + C_2 C_5 L_2 L_5 R_5 g_m s^4 + C_2 C_5 L_2 L_5 R_5 g_m s^4 + C_2 C_5 L_5 R_5 g_m s^4 + C_2 C_5$

10.388 INVALID-ORDER-388 $Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_5 g_m s^4 - C_2 C_5 L_2 L_5 s^4 - C_2 C_5 L_2 R_5 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 L_5 R_5 s^3 + C_2 L_5 R_5 s^3 + C_2 L_5 R_5 R_5 r_5 + C_2 C_5 L_2 L_5 R_4 R_5 g_m s^5 + C_2 C_5 L_2 L_5 R_4 R_5 g_m s^5 + C_2 C_4 L_2 R_4 R_5 g_m s^3 + C_2 C_4 L_2 R_4 R_5 g_m s^3 + C_2 C_4 L_2 R_4 R_5 g_m s^4 + C_2 C_5 L_2 L_5 R_4 R_5 g_m s^3 + C_2 C_5 L_2 R_5 R_5 r_5 + C_2 C_$

10.389 INVALID-ORDER-389 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_2 R_4 g_m s^3 + C_2 C_4 L_2 S^3 + 2 C_2 C_4 R_4 s^2 + C_2 C_4 R_5 s^2 + C_2 L_2 g_m s^2 + 2 C_2 s + C_4 R_4 g_m s + C_4 R_5 g_m s + C_4 s + g_m\right)}$

10.390 INVALID-ORDER-390 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2R_4g_ms^3 + C_2C_4C_5L_2s^3 + 2C_2C_4C_5R_4s^2 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5R_4g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$

10.391 INVALID-ORDER-391 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2R_5s^3 - C_2L_2R_5g_ms^2 + C_2L_2s^2 - C_2R_5s + C_5R_5s - R_5g_m + 1\right)}{2\left(C_2C_4C_5L_2R_4R_5g_ms^4 + C_2C_4C_5L_2R_5s^4 + 2C_2C_4C_5R_4R_5s^3 + C_2C_4L_2R_5g_ms^3 + 2C_2C_4R_4s^2 + C_2C_4R_5s^2 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + 2C_2s + C_4C_5R_4R_5g_ms^2 + C_4C_5R_5s^2 + C_4R_4g_ms + C_4R_5g_ms + C_4R_5g_ms^2 +$

10.392 INVALID-ORDER-392 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2R_4g_ms^3 + C_2C_4C_5L_2s^3 + 2C_2C_4C_5R_4s^2 + C_2C_4C_5R_5s^2 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5R_4g_ms + C_4C_5R_5g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$ 10.393 INVALID-ORDER-393 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2L_5g_ms^4 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_5s^3 + 2C_2C_4C_5R_4s^2 + C_2C_4L_2g_ms^2 + C_2C_4L_2g_ms^2 + 2C_2C_5s + C_4C_5L_5g_ms^2 + C_4C_5R_4g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$ 10.394 INVALID-ORDER-394 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2L_5s^4 - C_2L_2L_5g_ms^3 + C_2L_2s^2 - C_2L_5s^2 + C_5L_5s^2 - L_5g_ms + 1\right)}{2\left(C_2C_4C_5L_2L_5R_4g_ms^5 + C_2C_4C_5L_2L_5s^5 + 2C_2C_4C_5L_5R_4s^4 + C_2C_4L_2Sg_ms^4 + C_2C_4L_2s^3 + C_2C_4L_2s^3 + C_2C_4L_5s^3 + 2C_2C_4L_5s^3 + C_2C_4L_5s^3 + C_2C_4L_5s^3 + C_2C_4L_5s^3 + C_4C_5L_5s^3 + C_4C_5L$ 10.395 INVALID-ORDER-395 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2S_gms^3 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2C_5E_5s^3 + C_2C_5E_5s^3 + C_2E_5g_ms^2 + C_5E_5g_ms^2 + C_5E_5g_ms^2$ **10.396** INVALID-ORDER-396 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$ $-\frac{\left(C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}L_{5}R_{5}s^{4}-C_{2}L_{2}L_{5}R_{5}g_{m}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}R_{5}s^{2}-C_{2}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{3}+C_{5}L_$ 10.397 INVALID-ORDER-397 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$ $H(s) = \frac{(C_4R_4s+1)\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_2E_5s^4 + C_2C_5L_2E_5s^4 + C_2L_2E_5g_ms^3 + C_2L_2E_5g_ms^3 + C_2L_2E_5g_ms^3 + C_2L_2E_5g_ms^3 + C_2L_2E_5g_ms^3 + C_2L_2E_5g_ms^3 + C_2L_2E_5g_ms^4 + C_2C_4L_2E_5g_ms^4 + C_2C_4L_2E_5g_ms^4 + C_2C_4L_2E_5g_ms^4 + C_2C_4L_2E_5g_ms^3 + C_2C_4L_2E_5g_ms^4 + C_2C_4L_2E_5$ 10.398 INVALID-ORDER-398 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$ **10.399** INVALID-ORDER-399 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$ $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_2L_4q_ms^4 + C_2C_4L_2R_5q_ms^3 + C_2C_4L_2s^3 + 2C_2C_4L_4s^3 + C_2C_4R_5s^2 + C_2L_2q_ms^2 + 2C_2s + C_4L_4q_ms^2 + C_4R_5q_ms + C_4s + q_m\right)}$

$$\begin{aligned} \textbf{10.400} \quad \textbf{INVALID-ORDER-400} \ \ Z(s) &= \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \infty \right) \\ & H(s) &= \frac{\left(C_4 L_4 s^2 + 1 \right) \left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2 + C_2 s - C_5 s + g_m \right)}{2 s \left(C_2 C_4 C_5 L_2 L_4 g_m s^4 + C_2 C_4 C_5 L_2 s^3 + 2 C_2 C_4 C_5 L_4 s^3 + C_2 C_4 L_2 g_m s^2 + C_2 C_5 L_2 g_m s^2 + 2 C_2 C_5 s + C_4 C_5 L_4 g_m s^2 + C_4 C_5 s + C_4 G_5 g_m \right)} \end{aligned}$$

```
H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2R_5s^3 - C_2L_2R_5g_ms^2 + C_2L_2s^2 - C_2R_5s + C_5R_5s - R_5g_m + 1\right)}{2\left(C_2C_4C_5L_2L_4R_5g_ms^5 + C_2C_4C_5L_2R_5s^4 + 2C_2C_4C_5L_4R_5s^4 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_2s^3 + 2C_2C_4L_4s^3 + C_2C_4L_2s^3 + 2C_2C_5R_5s^2 + C_2L_2g_ms^3 + 2C_2C_5R_5s^2 + C_2L_2g_ms^3 + 2C_2C_5R_5s^2 + C_2L_2g_ms^3 + C_4C_5R_5s^2 + C_4L_4g_ms^3 + C_4C_5R_5s^2 + C_4C_
10.402 INVALID-ORDER-402 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                  H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2H_5g_ms^4 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_4s^3 + C_2C_4C_5H_5s^2 + C_2C_4L_2g_ms^2 + C_2C_4S + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5R_5g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}
10.403 INVALID-ORDER-403 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2L_5g_ms^4 + C_2C_4C_5L_2s^3 + 2C_2C_4C_5L_4s^3 + C_2C_4C_5L_5s^3 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5L_5g_ms^2 + C_5C_5L_5g_ms^2 + C_5C_5L_5g_ms^2 + C_5C_5L_5g_ms^2 + C_5C_5L_5g
10.404 INVALID-ORDER-404 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5s^4 - C_2L_2L_5g_ms^3 + C_2L_2s^2 - C_2L_5s^2 + C_5L_5s^2 - L_5g_ms + 1\right)}{2\left(C_2C_4C_5L_2L_4S_gms^6 + C_2C_4C_5L_2L_5s^5 + 2C_2C_4C_5L_4L_5s^5 + C_2C_4L_2L_4g_ms^4 + C_2C_4L_2S_gms^4 + C_2C_4L_2S_gms^4 + 2C_2C_5L_5S_gms^4 + 2C_2C_5L_5S_gms^4 + 2C_2C_5L_5S_gms^4 + 2C_2C_5L_5S_gms^4 + C_4C_5L_4L_5g_ms^4 + C_4C_5L_5S_gms^4 + C_4C_5
10.405 INVALID-ORDER-405 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                               \frac{\left(C_{4}L_{4}s^{2}+1\right)\left(C_{2}C_{5}L_{2}L_{5}g_{m}s^{4}+C_{2}C_{5}L_{2}S_{5}g_{m}s^{3}-C_{2}C_{5}L_{2}s^{3}+C_{2}C_{5}L_{5}s^{3}+C_{2}C_{5}L_{5}s^{3}+C_{2}C_{5}L_{5}s^{3}+C_{2}L_{5}g_{m}s^{2}+C_{5}L_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{2s\left(C_{2}C_{4}C_{5}L_{2}L_{5}g_{m}s^{4}+C_{2}C_{4}C_{5}L_{2}S^{3}+C_{2}C_{4}C_{5}L_{5}s^{3}+C_{2}C_{4}C_{5}L_{5}s^{3}+C_{2}C_{4}C_{5}L_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}g_{m}s^{2}+C_{2}C_{4}L_{2}g_{m}s^{2}+C_{2}C_{5}L_{2}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L_{5}g_{m}s^{2}+C_{4}C_{5}L
10.406 INVALID-ORDER-406 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \left(C_{4}L_{4}s^{2}+1\right)\left(C_{2}C_{5}L_{2}L_{5}R_{5}s^{4}-C_{2}L_{2}L_{5}R_{5}g_{m}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}R_{5}s^{2}-C_{2}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L
H(s) = -\frac{\left(C_4L_4S^- + 1\right)\left(C_2C_5L_2L_5R_5S^- - C_2L_2L_5R_5g_ms^- + C_2L_2L_5S^- + C_2L_2L_5S^- + C_2L_2L_5S^- + C_2L_2L_5S^- + C_2L_2L_5R_5S^- + C_2L_
10.407 INVALID-ORDER-407 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_2R_5g_ms^3 + C_2L_2R_5g_ms^3 + C_2L_2R_5g_ms^3 + C_2L_2S^2 + C_2R_5s^2 + C_2R_5s + C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5S^2 + C_5S^2 +
10.408 INVALID-ORDER-408 Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 - C_2C_5L_2R_5s^3 + C_2L_2R_5g_ms^2 - C_2L_2R_5g_ms^2 - C_2L_2R_5g_ms^2 - C_2L_2R_5g_ms^2 - C_2L_2R_5g_ms^2 - C_2L_2R_5g_ms^2 - C_2L_2R_5g_ms^2 + C_2C_4C_5L_2L_4R_5g_ms^4 + C_2C_4C_5L_2L_4R_5g_ms^4 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_2S_3 + 
10.409 INVALID-ORDER-409 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                                            H(s) = \frac{L_4 s \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_2 L_4 R_5 g_m s^4 + C_2 C_4 L_4 L_4 s^4 + C_2 C_4 L_4 R_5 s^3 + C_2 L_2 L_4 g_m s^3 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 s^2 + 2 C_2 L_4 s^2 + C_2 R_5 s + C_4 L_4 R_5 g_m s^2 + C_4 L_4 s^2 + L_4 g_m s + R_5 g_m + 1\right)}
```

10.401 INVALID-ORDER-401 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

```
10.410 INVALID-ORDER-410 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                      H(s) = \frac{L_4 s \left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2 + C_2 s - C_5 s + g_m\right)}{2 \left(C_2 C_4 C_5 L_2 L_4 s^5 + C_2 C_4 L_2 L_4 g_m s^4 + C_2 C_5 L_2 L_4 g_m s^4 + C_2 C_5 L_2 s^3 + 2 C_2 C_5 L_4 s^3 + C_2 L_2 g_m s^2 + C_2 s + C_4 C_5 L_4 s^3 + C_4 L_4 g_m s^2 + C_5 L_4 g_m s^2 + C_5 s + g_m\right)}
10.411 INVALID-ORDER-411 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{L_4s\left(-C_2C_5L_2R_5s^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_5s - C_5R_5s + R_5g_m - 1\right)}{2\left(C_2C_4C_5L_2L_4R_5s^5 + C_2C_4L_2L_4s^4 + C_2C_4L_4R_5s^3 + C_2C_5L_4R_5g_ms^4 + C_2C_5L_2R_5s^3 + 2C_2C_5L_4R_5s^3 + C_2L_2R_5g_ms^3 + C_2L_2R
10.412 INVALID-ORDER-412 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{2}R_{5}g_{m}s^{3} - C_{2}C_{5}L_{2}s^{3} + C_{2}C_{5}R_{5}s^{2} + C_{2}L_{2}g_{m}s^{2} + C_{2}s + C_{5}R_{5}g_{m}s - C_{5}s + g_{m}\right)}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}S_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}S_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{3}g_{m}s^{3} + C_{2}C_{5}L_{2}S_{3}s + C_{2}C_{5}L_{2}S_{3}s^{2} + C_{2}C_{5}L_{2}S_{3}s^{2} + C_{2}C_{5}L_{4}S_{3}s^{2} + C_{2}C_{5}L_{4}S_{5}s^{2} + C_{2}C_{5}L_{4}S_{5}s^{2}
10.413 INVALID-ORDER-413 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{2}L_{5}g_{m}s^{4} - C_{2}C_{5}L_{2}s^{3} + C_{2}L_{2}g_{m}s^{2} + C_{2}s + C_{5}L_{5}g_{m}s^{2} - C_{5}s + g_{m}\right)}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}S^{5} + C_{2}C_{4}L_{2}L_{4}S^{5} + C_{2}C_{4}L_{2}L_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{5}g_{m}s^{4} + C_{2}C_{5}L_{2}S^{3} + 2C_{2}C_{5}L_{4}S^{3} + C_{2}L_{2}g_{m}s^{2} + C_{2}s + C_{4}C_{5}L_{4}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{4}S^{3} + C_{4}L_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{5}g_{m}s^{4} + C_{2}C_{5}L_{2}S^{3} + C_{2}C_{5}L_{5}S^{3} + C_{2}L_{2}g_{m}s^{2} + C_{4}S_{4}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{4}S^{3} + C_{4}L_{4}g_{m}s^{2} + C_{5}L_{5}g_{m}s^{2} + C_{5}L_{
10.414 INVALID-ORDER-414 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                        \frac{L_{4}s\left(-C_{2}C_{5}L_{2}L_{5}s^{4}+C_{2}L_{2}L_{5}g_{m}s^{3}-C_{2}L_{2}s^{2}+C_{2}L_{5}s^{2}+L_{5}g_{m}s-1\right)}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}g_{m}s^{5}+C_{2}C_{4}L_{2}L_{4}S^{4}+C_{2}C_{5}L_{2}L_{4}L_{5}g_{m}s^{5}+C_{2}C_{5}L_{2}L_{5}s^{4}+2C_{2}C_{5}L_{4}L_{5}s^{4}+C_{2}L_{2}L_{4}g_{m}s^{3}+C_{2}L_{2}s^{2}+2C_{2}L_{4}s^{2}+C_{2}L_{5}s^{2}+C_{4}L_{4}L_{5}g_{m}s^{3}+C_{4}L_{4}S^{4}+C_{5}L_{4}L_{5}g_{m}s^{3}+C_{5}L_{5}S^{2}+C_{5}L_{5}L_{4}L_{5}g_{m}s^{3}+C_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{2}+C_{5}L_{5}L_{5}S^{
10.415 INVALID-ORDER-415 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_4s\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2s^3 
10.416 INVALID-ORDER-416 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
```

$$H(s) = \frac{L_{4}s\left(-C_{2}C_{5}L_{2}L_{5}R_{5}s^{4} + C_{2}L_{2}L_{5}R_{5}g_{m}s^{3} - C_{2}L_{2}L_{5}s^{3} - C_{2}L_{2}R_{5}s^{2} + C_{2}L_{5}R_{5}s^{2} + C_{2}$$

10.417 INVALID-ORDER-417 $Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \ \infty\right)$

10.418 INVALID-ORDER-418
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{2}L_{5}R_{5}g_{m}s^{4} - C_{2}C_{5}L_{2}L_{5}s^{4} - C_{2}C_{5}L_{2}R_{5}s^{3} + C_{2}C_{5}L_{5}R_{5}s^{3} + C_{2}L_{2}L_{5}s^{4} - C_{2}C_{5}L_{2}L_{5}s^{4} - C_{2}C_{5}L_{2}L_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}s^{4} + C_{2}C$$

```
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_2L_4g_ms^4 + C_2C_4L_2R_4g_ms^3 + C_2C_4L_2S^3 + 2C_2C_4L_4s^3 + 2C_2C_4R_4s^2 + C_2C_4R_5s^2 + C_2L_2g_ms^2 + 2C_2s + C_4L_4g_ms^2 + C_4R_4g_ms + C_4R_5g_ms + C_4s + g_m\right)}
10.420 INVALID-ORDER-420 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                       H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2H_4g_ms^4 + C_2C_4C_5L_2s^3 + 2C_2C_4C_5L_4s^3 + 2C_2C_4C_5H_4s^2 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5H_4g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}
10.421 INVALID-ORDER-421 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (C_4L_4s^2 + C_4R_4s + 1)(C_2C_5L_2R_5s^3 - C_2L_2R_5g_ms^2 + C_2L_2s^2 - C_2R_5s + C_5R_5s - R_5g_m + 1)
                                         \frac{(C_4D_4s + C_4D_4s + C
10.422 INVALID-ORDER-422 Z(s) = \left(\infty, L_2 s + \frac{1}{C_{2} s}, \infty, L_4 s + R_4 + \frac{1}{C_{4} s}, R_5 + \frac{1}{C_{5} s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2H_3g_ms^4 + C_2C_4C_5L_2R_5g_ms^3 + C_2C_4C_5L_2s^3 + 2C_2C_4C_5L_4s^3 + 2C_2C_4C_5R_5s^2 + C_2C_4L_2g_ms^2 + C_2C_5L_2g_ms^2 + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5R_4g_ms + C_4C_5R_5g_ms + C_4C_
10.423 INVALID-ORDER-423 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                 \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2L_5g_ms^4 + C_2C_4C_5L_2s^3 + 2C_2C_4C_5L_2s^3 + 2C_2C_4C_5L_2s^3 + 2C_2C_4C_5L_2g_ms^2 + C_2C_4s + C_2C_4L_2g_ms^2 + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5L_5g_ms^2 + C_
10.424 INVALID-ORDER-424 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}L_{5}s^{4}-C_{2}L_{2}L_{5}g_{m}s^{3}+C_{2}L_{2}s^{2}-C_{2}L_{5}s^{2}+C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)
                                         \frac{\left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}L_{5}s^{4}-C_{2}L_{2}L_{5}g_{m}s^{3}+C_{2}L_{2}s^{2}-C_{2}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}g_{m}s^{6}+C_{2}C_{4}C_{5}L_{2}L_{5}s^{5}+2C_{2}C_{4}C_{5}L_{4}L_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}g_{m}s^{4}+C_{2}C_{4}L_{2}L_{3}g_{m}s^{3}+C_{2}C_{4}L_{2}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{4}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}s^{3}+2C_{2}C_{5}L_{5}
10.425 INVALID-ORDER-425 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2C_5L_5s^3 + C_2C_5L_5s^3 + C_2C_5L_5g_ms^2 + C_5S_5g_ms^2 + C_
10.426 INVALID-ORDER-426 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                         10.427 INVALID-ORDER-427 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}L_{5}R_{5}g_{m}s^{4}-C_{2}C_{5}L_{2}L_{5}s^{4}+C_{2}C_{5}L_{5}R_{5}s^{3}+C_{2}L_{2}L_{5}g_{m}s^{3}+C_{2}L_{2}R_{5}g_{m}s^{2}\right)
H(s) = \frac{(24245 + 1)(22532253459m^6 - 22532253459m^6 - 22532253m^6 + 2225253m^6 - 2225253m^6 - 2225253m^6 - 2225253m^6 - 222532m^6 - 2225253m^6 - 2225325m^6 - 2225253m^6 - 222525m^6 - 222525m^6 - 222525m^6 - 222525m^6 - 222525m^6 - 22252m^6 - 22252m^6 - 22252m^6 - 22252m^6 - 22252m^6 - 22252m^6 - 2225
```

10.419 INVALID-ORDER-419 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

10.428 INVALID-ORDER-428 $Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$

10.429 INVALID-ORDER-429 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$

 $H(s) = \frac{L_4 R_4 s \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_2 L_4 R_4 s^4 + C_2 C_4 L_4 R_4 s^3 + C_2 L_2 L_4 R_5 g_m s^3 + C_2 L_2 L_4 R_5 g_m s^2 + C_2 L_2 R_4 s^2 + C_2 L_4 R_5 s^2 + C_2 L_4 R_5 s^2 + C_2 L_4 R_4 s^2 + L_4 R_4 g_m s^3 + L_4 R_5 g_m s^3 + C_2 L_2 L_4 R_5 g_m s^3 + C_2 L_2 L_4 R_5 g_m s^2 + C_2 L_4 R_5 g_m s^2 + C_2 L_4 R_5 g_m s^2 + C_4 L_4 R_4 g_m s^2 + L_4 R_4 g_m s + L_4 R_5 g_m s^2 + L_4 R_5 g_m s^2 + C_4 L_4 R_5 g_m$

10.430 INVALID-ORDER-430 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_4 R_4 s \left(-C_2 C_5 L_2 s^3 + C_2 L_2 g_m s^2 + C_2 s - C_5 s + g_m\right)}{2 \left(C_2 C_4 C_5 L_2 L_4 R_4 g_m s^4 + C_2 C_4 L_4 R_4 g_m s^4 + C_2 C_5 L_2 L_4 R_4 g_m s^4 + C_2 C_5 L_2 L_4 s^4 + C_2 C_5 L_2 L_4 s^4 + C_2 C_5 L_2 L_4 g_m s^3 + C_2 L_4 R_4 g_m s^2 + C_5 L_4 R_4 g_m s$

10.431 INVALID-ORDER-431 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $L_4R_4s\left(-C_2C_5L_2R_5s^3+C_2L_2R_5g_ms^2-C_2L_2s^2+C_2R_5s-C_5R_5s+R_5g_m-1\right)$ $H(s) = \frac{L_4R_4s\left(-C_2C_5L_2R_5s^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_5s - C_5R_5s + R_5g_m - 1\right)}{2\left(C_2C_4C_5L_2L_4R_4R_5s^5 + C_2C_4L_2L_4R_4S_5s^4 + C_2C_5L_2L_4R_5s^4 + C_2C_5L_2L_4R_5s^3 + C_2L_2L_4R_5s^3 + C_2L_2L_4R_$

10.432 INVALID-ORDER-432 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $L_4R_4s\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms - C_5R_5g_ms H(s) = \frac{L_4 R_4 s \left(C_2 C_5 L_2 R_5 g_m s^5 - C_2 C_5 L_2 S^5 + C_2 C_5 R_4 S^5 + C_2 C_5 R_4 g_s s^5 + C_2 C_5 L_2 g_m s^5 + C_2 C_5 L_4 R_4 g_s s^5 + C_2 C_5 L_4 R_4 g_s s^5 + C_2 C_5 L_4 R_4 g_s s^4 + C_2 C_5 L_4 R_5 g_s s^4 + C_2 C_5 L_5 L_5 R_5 g_s s^4 + C_2 C_5 L_5 R_$

10.433 INVALID-ORDER-433 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

10.434 INVALID-ORDER-434 $Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$

 $H(s) = \frac{L_4R_4s \left(-C_2C_5L_2L_5s + C_2L_2L_5s + C_2L_2L_5s + C_2L_2s + C_$

10.435 INVALID-ORDER-435 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

10.436 INVALID-ORDER-436 $Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

```
10.437 INVALID-ORDER-437 Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
```

10.438 INVALID-ORDER-438
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

10.439 INVALID-ORDER-439
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ R_5, \ \infty\right)$$

$$H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_2L_4R_5g_ms^4 + C_2C_4L_2L_4s^4 + 2C_2C_4L_4R_4s^3 + C_2C_4L_4R_5s^3 + C_2L_2R_4g_ms^3 + C_2L_2R_5g_ms^2 + C_2L_2s^2 + 2C_2L_4s^2 + 2C_2R_4s + C_2R_5s + C_4L_4R_5g_ms^2 + C_4L_4s^2 + L_4g_ms + R_4g_m + R_5g_m + 1\right)}$$

10.440 INVALID-ORDER-440
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(-C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s - C_5s + g_m\right)}{2\left(C_2C_4C_5L_2L_4R_4g_ms^5 + C_2C_4L_5L_4R_4s^4 + C_2C_4L_2L_4g_ms^4 + C_2C_5L_2R_4g_ms^3 + C_2C_5L_2s^3 + 2C_2C_5L_4s^3 + 2C_2C_5L_4s^3 + 2C_2C_5L_4s^3 + 2C_2C_5L_4s^3 + C_4C_5L_4R_4g_ms^3 + C_4C_5L_4s^3 + C_4C_5L_4g_ms^2 + C_5L_4g_ms^2 + C_5L_4g_ms^2 + C_5L_4g_ms^2 + C_5L_4g_ms^3 + C_4C_5L_4g_ms^3 + C_4C_5L_4g$$

10.441 INVALID-ORDER-441
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = -\frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_2R_5s^3 - C_2L_2R_5g_ms^2 + C_2C_4C_5L_4R_4s^3 + C_2C_4L_4R_4s^3 + C_2C_4L_4R_5s^3 + C_2C_5L_4R_5s^3 + C_$$

10.442 INVALID-ORDER-442
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2\left(C_2C_4C_5L_2L_4R_4g_ms^5 + C_2C_4L_2L_4g_ms^4 + C_2C_4L_2L_4g_ms^4 + C_2C_5L_2R_4g_ms^3 + C_2C_5L_2R_5g_ms^3 + C_2C_5L_2s^3 + 2C_2C_5L_4s^3 + 2C_2C_5R_4s^2 + C_2C_5R_5s^2 + C_2L_2g_ms^2 + C_2C_5R_5s^2 + C_2$$

10.443 INVALID-ORDER-443
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2L_2g_ms^2 + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2\left(C_2C_4C_5L_2L_4L_5g_ms^6 + C_2C_4C_5L_2L_4g_ms^5 + C_2C_4C_5L_4L_4s^5 + C_2C_4L_4L_5s^5 + 2C_2C_4C_5L_4R_4s^4 + C_2C_4L_4g_ms^4 + C_2C_5L_2L_4g_ms^4 + C_2C_5L_2L_4g_ms^4 + C_2C_5L_2S^3 + 2C_2C_5L_4s^3 +$$

10.444 INVALID-ORDER-444
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

$$H(s) = -\frac{\left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right) \left(C_2 C_5 L_2 L_5 s^4 - C_2 L_2 L_5 g_m s^3 + C_2 L_4 L_5 g_m s^4 + C_2 C_4 L_2 L_4 L_5 g_m s^5 + C_2 C_5 L_2 L_5 R_4 g_m s^4 + C_2 C_5 L_2 L_5 R_4 g_m s^5 + C_2 C_5 L_2 L_5 R_4 g_m s^4 + C_2 C_5 L_2 L_5 R_4 g_m s^4 + C_2 C_5 L_2 L_5 R_4 g_m s^5 + C_2 C_5 L_5 L_5 R_5 g_m s^5 + C_2 C_5 L_5$$

10.445 INVALID-ORDER-445
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_5s^3 + C_2C_5R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5$$

```
10.446 INVALID-ORDER-446 Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)
```

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + 2C_{2}C_{4}L_{2}L_{4}L_{5}R_{4}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}S^{5} + C_{2}C_{4}L_{4}L_{5}S^{5} + C_{2}C_{4}L_{4}L$

10.447 INVALID-ORDER-447
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \ \infty\right)$$

 $H(s) = \frac{(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{4}S^{4} + C_{2}C_{4}L_{2}L_{4}S^{4} + C_{2}C_{4}L_{4}L_{5}S^{4} + 2C_{2}C_{4}L_{4}L_{5}S^{4} + C_{2}C_{4}L_{4}L_{5}S^{4} + C_{2}C_{4}L_{4}L_{5}$

10.448 INVALID-ORDER-448
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{4$

10.449 INVALID-ORDER-449
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ R_5, \ \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 L_2 L_4 R_5 g_m s^4 + C_2 C_4 L_2 L_4 s^4 + C_2 C_4 L_2 R_4 s^3 + 2 C_2 C_4 L_4 R_5 s^3 + C_4 L_4 R_5 s$

10.450 INVALID-ORDER-450
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

10.451 INVALID-ORDER-451
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)$$

 $H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_2 C_5 L_2 R_5 s^3 - C_2 L_2 R_5 g_m S^3 + C_2 C_4 C_5 L_2 L_4 R_4 S_5 s^4 + C_2 C_4 L_2 L_4 R_5 g_m S^3 + C_2 C_4 L_5 L_5 R_5 g_m S^3 + C_2 C_4 L_5 L_5 R_5 g_m S^3 + C_2 C_4 L_5 L_5 R_5 g_m S^3 + C_2 C_5 L_5 R_5 g_$

10.452 INVALID-ORDER-452
$$Z(s) = \left(\infty, L_2 s + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 C_5 L_2 R_4 R_5 g_m s^4 + C_2 C_4 C_5 L_2 R_4 R_5 g_m s^4 + C_2 C_4 C_5 L_2 R_4 g_m s^4 + C_2 C_4 C_5 L_2 R_4 g_m s^4 + C_2 C_4 C_5 L_2 R_4 g_m s^3 + C_2 C_4 L_2 R_4 g_m s^3 + C_2 C_4 L_2 R_4 g_m s^3 + C_2 C_4 R_4 s^2 + C_2 C_5 R_4 R_5 g_m s^4 + C_2 C_4 C_5 L_2 R_4 g_m s^3 + C_2 C_4 R_4 g_m s^4 + C_2 C_4 R_5 g_m s^$

10.453 INVALID-ORDER-453
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 s^3 + C_2 L_2 g_m s^2 + C_2 C_5 L_2 s^3 + C_2 C_4 C_5 L_2 L_4 R_4 g_m s^5 + C_2 C_4 C_5 L_2 L_4 R_4 g_m s^5 + C_2 C_4 C_5 L_2 L_4 R_4 g_m s^5 + C_2 C_4 C_5 L_2 L_4 R_4 g_m s^5 + C_2 C_4 C_5 L_2 L_4 R_4 g_m s^5 + C_2 C_4 L_2 L_4 g_m s^4 + C_2 C_4 L_4 L_5 g_m s^4 + C_2 C_4 L_5 L_4 L_5 g_m s^4 + C_2 C_4 L_5 L_5 g_m s^4 + C_2 C_5 L_5 g_m s^4 + C_5 L_5$

10.454 INVALID-ORDER-454
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

 $H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_2 C_5 L_2 L_5 s^4 - C_2 L_2 L_5 g_m + C_2 C_4 L_2 L_4 L_5 g_m s^4 + C_2 C_4 L_2 L_4 L_5 g_m s^5 + C_2 C_4 L_5 L_4 L_5 g_m s^5 + C_2 C_4 L_5 L_5 g_m s^5 + C_2 C_4 L_5$

10.455 INVALID-ORDER-455
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

10.456 INVALID-ORDER-456
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{4}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{6}$

10.457 INVALID-ORDER-457
$$Z(s) = \left(\infty, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{$

10.458 INVALID-ORDER-458
$$Z(s) = \left(\infty, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C$

10.459 INVALID-ORDER-459
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{2 \left(C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_2 s^3 + C_2 C_5 R_4 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_4 g_m s + C_5 s + g_m\right)}$$

10.460 INVALID-ORDER-460
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_5 s^3 - C_2 C_5 R_2 R_5 s^2 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 R_4 g_m s + C_2$$

10.461 INVALID-ORDER-461
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_2 R_5 g_m s^2 - C_2 C_5 R_2 s^2 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2 R_4 g_m s^2 + C_2 C_5 R_2 R_5 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 C_5 R_5 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_4 g_m s + C_5 R_5 g$$

10.462 INVALID-ORDER-462
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 g_m s^4 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 + C_5 R_4 g_m s + C_5 s + g_m \right)}$$

10.463 INVALID-ORDER-463
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 L_5 s^4 - C_2 C_5 L_5 R_2 s^3 + C_2 L_2 L_5 g_m s^3 - C_2 L_2 s^2 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 - C_2 R_2 s - C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{2 \left(C_2 C_5 L_2 L_5 S^4 + C_2 C_5 L_5 S^4 + C_2 C_5 L_5 R_2 S^3 + 2 C_2 C_5 L_5 R_2 s^3 + 2 C_2 L_5 S^3 + C_2 L_2 L_5 g_m s^3 + C_2 L_2 R_4 g_m s^2 + C_2 L_5 s^2 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 S^2 + C_2 R_2 g_m s^2 + C_2 L_5 R_2 g_$$

```
10.464 INVALID-ORDER-464 Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ R_4, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)
```

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 R_2 s^2 + C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2 R_5 g_m s^2 + C_2 C_5 R_2 R_5 g_m s^2 + C_2 C_5 R_5 R$$

10.465 INVALID-ORDER-465
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 L_5 R_5 s^4 - C_2 C_5 L_5 R_2 R_5 s^3 + C_2 L_2 L_5 R_5 g_m s^3 - C_2 L_2 R_5 s^2 + C_2 L_5 R_2 g_m s^2 - C_2 L_5 R_2 s^2 + C_2 L_5 R_5 s^2 - C_2 R_2 R_5 s - C_5 L_5 R_5 s^2 - C_2 R_2 R_5 s - C_5 L_5 R_5 s^2 - C_2 R_2 R_5 s^2 + C_2 L_5 R_4 R_5 g_m s^4 + C_2 C_5 L_5 R_4 R_5 g_m s^4 + C_2 C_5 L_5 R_4 R_5 g_m s^3 + C_2 L_2 L_5 R_4 g_m s^3 + C_2 L_2 R_5 g_m s^2 + C_2 L_5 R_2 R_4 g_m s^2 + C_2 L_5 R_2 R_5 g_m s^2 + C_2 L_5 R_2 R_5$$

10.466 INVALID-ORDER-466
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_5 g_m s^4 - C_2 C_5 L_2 L_5 s^4 + C_2 C_5 L_5 R_2 R_5 g_m s^3 - C_2 C_5 L_5 R_2 s^3 + C_2 L_2 L_5 g_m s^3 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 L_5 R_2 g_m s^2 + C_2 L_5 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 g_m s^2 + C_2 R_5 g_m s^2 + C_2 R_5 g_m s^3 + C_2 R_$$

10.467 INVALID-ORDER-467
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ R_4, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_5 g_m s^4 - C_2 C_5 L_2 R_5 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 C_5 L_5 R_2 s^$$

10.468 INVALID-ORDER-468
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1}{2\left(C_2C_4L_2R_5g_ms^3 + C_2C_4L_2s^3 + C_2C_4R_2R_5g_ms^2 + C_2C_4R_2s^2 + C_2C_4R_5s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + 2C_2s + C_4R_5g_ms + C_4s + g_m\right)}$$

10.469 INVALID-ORDER-469
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s - C_5s + g_m}{2s\left(C_2C_4C_5L_2s^3 + C_2C_4C_5R_2s^2 + C_2C_4L_2g_ms^2 + C_2C_4R_2g_ms + C_2C_5L_2g_ms^2 + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5s + C_4g_m + C_5g_m\right)}$$

10.470 INVALID-ORDER-470
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_5s^3 - C_2C_5R_2R_5s^2 + C_2L_2S_gms^2 - C_2L_2s^2 + C_2R_2S_gms - C_2R_2s + C_2R_5s - C_5R_5s + R_5gm - 1}{2\left(C_2C_4C_5L_2R_5s^4 + C_2C_4C_5R_2S_5^3 + C_2C_4L_2S_gms^3 + C_2C_4R_2S_gms^2 + C_2C_4R_5s^2 + C_2C_4R_5s^2 + C_2C_4R_5s^2 + C_2C_4R_5s^2 + C_2C_4R_5s^2 + C_2C_4R_5s^2 + C_2C_5R_5s^2 + C_2L_2gms^2 + C_2R_2gms + 2C_2s + C_4C_5R_5s^2 + C_4R_5gms + C_4s + C_5R_5gms + C_5$$

10.471 INVALID-ORDER-471
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_2g_ms^2 - C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m}{2s\left(C_2C_4C_5L_2S_3 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4S + C_2C_5L_2g_ms^2 + C_2C_5R_2g_ms + C_2C_5R_2g_$$

10.472 INVALID-ORDER-472
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 - C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5L_2s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m}{2s\left(C_2C_4C_5L_2S^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5R_2s^2 + C_2C_4L_2g_ms^2 + C_2C_4S + C_2C_5L_2g_ms^2 + C_2C_5R_2g_ms + 2C_2C_5S + C_4C_5L_5g_ms^2 + C_4C_5S + C_4G_5S + C_4G_$$

10.475 INVALID-ORDER-475
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2L_5R_5s^4 - C_2C_5L_5R_2s^3 + C_2L_2L_5s^3 - C_2L_2R_5s^2 + C_2L_5R_2s^2 + C_2L_5R_2s^2 + C_2L_5R_5s^2 - C_2R_2R_5s - C_5L_5R_5s^2 - C_5R_5s^2 -$$

10.476 INVALID-ORDER-476
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5R_2g_ms^3 - C_2C_5L_5R_2s^3 + C_2L_2L_5g_ms^3 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2L_5R_2g_ms^2 + C_2L_5s^2 + C_2R_2g_ms - C_2R_2s^2 + C_2L_5s^2 + C_2R_2g_ms^2 - C_2R_2s^2 + C_2R_2g_ms^3 + C_2R_2g_ms^3$$

10.477 INVALID-ORDER-477
$$Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5s^4 - C_2C_5L_2L_5s^4 - C_2C_5L_2R_5s^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2C_5L_5R_5s^3 - C_2C_5R_2R_5s^2 + C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2C_5L_5R_5s^3 + C_2C_4C_5L_5R_5s^3 + C_2C_4C_5L_5R_5s^3 + C_2C_4C_5L_5R_5s^3 + C_2C_4L_2s^3 + C_2C_4L_2s^3 + C_2C_4L_2s^3 + C_2C_4R_2s^2 + C_2C_4R_5s^2 + C_2C_4L_2s^3 + C_2C_4L_2s$$

10.478 INVALID-ORDER-478
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1 \right)}{2 \left(C_2 C_4 L_2 R_4 s^3 + C_2 C_4 L_2 R_4 s^3 + C_2 C_4 R_2 R_4 s^2 + C_2 C_4 R_4 R_5 s^2 + C_2 L_2 R_4 g_m s^2 + C_2 L_2 R_5 g_m s^2 + C_2 L_2 R_5 g_m s + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 R_4 g_m s + C_2 R_2 R_4 g_m s + C_2 R_2 R_5 g_m s + C_2 R_2 R_4 g_m$$

10.479 INVALID-ORDER-479
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m \right)}{2 \left(C_2 C_4 C_5 L_2 R_4 s^4 + C_2 C_4 C_5 R_2 R_4 s^3 + C_2 C_4 L_2 R_4 g_m s^3 + C_2 C_4 R_4 g_m s^3 + C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_5 L_2 R_4 g_m s^2 + C_2 C_5 R_2 R_4 g_m s^2 + C_2 C_5 R_2 s^2 + 2 C_2 C_5 R_4 s^2 + C_2 L_2 g_m s + C_2 s + C_4 C_5 R_4 s^2 + C_4 R_4 g_m s + C_5 R_5 g_m s + C_5 R_$$

10.480 INVALID-ORDER-480
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_5 s^3 - C_2 C_5 R_2 R_5 s^2 + C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 g_m s - C_2 R_2 s + C_2 R_5 s - C_5 R_5 s + R_5 g_m r^2 - C_2 R_2 r^2 + C_2 R_2 R_5 r^2 + C_2 R_5 r^2 + C_2$$

10.481 INVALID-ORDER-481
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_2 s^2 + C_2 C_5 R_2 s^2 + C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s + C_5 R_5 g_m s - C_5 s R_2 R_2 g_m s^2 + C_2 R_2 R_2 g_m s^2 +$$

```
 \begin{aligned} \textbf{10.482} \quad \textbf{INVALID-ORDER-482} \ Z(s) &= \left( \infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ L_5s + \frac{1}{C_5s}, \ \infty \right) \\ & \quad R_4 \left( C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5g_ms^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s \\ & \quad 2\left( C_2C_4C_5L_2L_5R_4g_ms^5 + C_2C_4C_5L_2R_4s^4 + C_2C_4C_5L_5R_4s^4 + C_2C_4C_5L_5R_4s^3 + C_2C_4L_2R_4g_ms^3 + C_2C_4L_2R_4g_ms^3 + C_2C_5L_2L_5g_ms^4 + C_2C_5L_2L_5g_ms^4 + C_2C_5L_2R_4g_ms^3 + C_2C_5L_2s^3 + C_2C_5L_2
```

10.484 INVALID-ORDER-484 $Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_5 L_5 R_2 g_m s^3 + C_2 C_4 C_5 L_2 R_4 g_m s^3 + C_2 C_4 R_4 g_m s^3 + C_2$

10.485 INVALID-ORDER-485 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

10.486 INVALID-ORDER-486 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_4 g_m s^5 + C_2 C_4 C_5 L_2 L_5 R_4 g_m s^4 + C_2 C_4 L_5 R_4 g_m s^4 + C_2 C_4 L_5 R_4 g_m s^3 + C_2 C_4 R_5 g_$

10.487 INVALID-ORDER-487 $Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{R_4}{C_4R_4s + 1}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{5}R_{4}R_{5}s^{4} + C_{2}$

10.488 INVALID-ORDER-488 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_2R_4g_ms^3 + C_2C_4L_2S^3 + C_2C_4R_2R_4g_ms^2 + C_2C_4R_2S^2 + C_2C_4R_4s^2 + C_2C_4R_5s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + 2C_2s + C_4R_4g_ms + C_4R_5g_ms + C_4s + g_m\right)}$

10.489 INVALID-ORDER-489 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(-C_2C_5L_2s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2R_4g_ms^3 + C_2C_4C_5R_2R_4g_ms^2 + C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_4s^2 + C_2C_4R_2g_ms^2 + C_2C_4R_2g_ms + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5R_4g_ms + C_4C_5s + C_4g_m + C_5g_m\right)}$

10.490 INVALID-ORDER-490 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2R_5s^3 + C_2C_5R_2R_5s^2 - C_2L_2R_5g_ms^2 + C_2L_2s^2 - C_2R_2R_5g_ms + C_2R_2s - C_2R_5s + C_5R_5s - R_5g_ms^2 + C_2C_4C_5L_2R_5g_ms^3 + C_2C_4C_5L_2R_5g_ms^3 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_2R_5g_ms^3 + C_2C_4R_2R_5g_ms^2 + C_2C_4R_2R_5g_ms^2 + C_2C_4R_2R_5g_ms^3 + C_2C_4R_5g_ms^3 + C_2$

```
10.492 INVALID-ORDER-492 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2L_5g_ms^4 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + C_2C_5R_2g_ms + C_2C_5R_2g_ms^2 
10.493 INVALID-ORDER-493 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \left(C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}L_{5}s^{4}+C_{2}C_{5}L_{5}R_{2}s^{3}-C_{2}L_{2}L_{5}g_{m}s^{3}+C_{2}L_{2}s^{2}-C_{2}L_{5}R_{2}g_{m}s^{2}-C_{2}L_{5}s^{2}+C_{2}R_{2}s+C_{5}L_{5}s^{2}-L_{5}g_{m}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}
                                                       \frac{(C_4R_4s+1)\left(C_2C_5L_2L_5s^4+C_2C_5L_5R_2s^3-C_2L_2L_5g_ms^3+C_2L_2s^2-C_2L_5R_2g_ms^2-C_2L_5s^2+C_2L_5s^2-L_5g_ms^3+C_2L_2s^3-C_2L_5s^2+C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_5s^2-C_2L_
10.494 INVALID-ORDER-494 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5L_5g_ms^2 + C_2C_4C_5L_2g_ms^3 + C_2C_4C_5L_2g_ms^3 + C_2C_4C_5L_2g_ms^3 + C_2C_4C_5L_2g_ms^3 + C_2C_4C_5L_2g_ms^3 + C_2C_4C_5R_2g_ms^3 + C_2C_4C_5R_2
10.495 INVALID-ORDER-495 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                        \frac{(C_4 L C_4 L C_5 L C_4 L C_5 L C_4 L C_5 L C_5 L C_4 L C_5 L C_5 L C_4 L C_5 L C
10.496 INVALID-ORDER-496 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (C_4R_4s+1)(C_2C_5L_2L_5R_5g_ms^4-C_2C_5L_2L_5s^4+C_2C_5L_5R_2R_5g_ms^3-C_2C_5L_5R_2s^3+C_2C_5L_5R_5s^3+C_2L_2L_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_2C_5L_5R_5g_ms^4-C_5C_5R_5g_ms^4-C_5C_5R_5g_ms^4-C_5C_5R_5g_ms^4-C_5C_5R_5g_ms^4-C_5C_5R_5g_ms^4-C_5C_5R_5g_ms^4-C_5C_5R_5g_ms^4-C_5C_5R
H(s) = \frac{(C_4R_4s+1)\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5R_2g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3
10.497 INVALID-ORDER-497 Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)
                                                         \overline{2(C_2C_4C_5L_2L_5R_4q_ms^5 + C_2C_4C_5L_2L_5R_5q_ms^5 + C_2C_4C_5L_2L_5s^5 + C_2C_4C_5L_2R_4R_5q_ms^4 + C_2C_4C_5L_2R_5s^4 + C_2C_4C_5L_5R_2R_4q_ms^4 + C_2C_4C_5L_5R_2s^4 + 
10.498 INVALID-ORDER-498 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                     H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2g_ms - C_2R_2s + C_2R_5g_ms - 1\right)}{2\left(C_2C_4L_2L_4g_ms^4 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_4g_ms^3 + 2C_2C_4L_4s^3 + C_2C_4R_2g_ms^2 + C_2C_4R_2s^2 + C_2C_4R_5s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + 2C_2s + C_4L_4g_ms^2 + C_4R_5g_ms + C_4s + g_m\right)}
10.499 INVALID-ORDER-499 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                      H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(-C_2C_5L_2s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2g_ms^4 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_4g_ms^3 + 2C_2C_4C_5L_4s^3 + C_2C_4C_5R_2s^2 + C_2C_4L_2g_ms^2 + C_2C_4s + C_2C_5L_2g_ms^2 + C_2C_5R_2g_ms + 2C_2C_5s + C_4C_5L_4g_ms^2 + C_4C_5s + C_4g_m + C_5g_m\right)}
```

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2R_4g_ms^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5R_2s^2 + C_2C_4C_$

10.491 INVALID-ORDER-491 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

```
10.500 INVALID-ORDER-500 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (C_4L_4s^2+1)(C_2C_5L_2R_5s^3+C_2C_5R_2R_5s^2-C_2L_2R_5g_ms^2+C_2L_2s^2-C_2R_2R_5g_ms+C_2R_2s-C_2R_5s+C_5R_5s-R_5g_ms+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5s^2+C_2R_5
H(s) = -\frac{(C_4L_4s + 1)(C_2C_5L_2R_5s + C_2C_5R_2R_5s + C_2C_5R_2R_5s + C_2L_2R_5g_ms + C_2R_2s - C_2R_2R_5g_ms + C_2R_2s - C_2R_2s 
10.501 INVALID-ORDER-501 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2L_4g_ms^4 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_4s^3 + C_2C_4C_5L_4s^3 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4S_4C_5L_2g_ms^2 + C_2C_5R_2g_ms + C_2C_5R_2g_m
10.502 INVALID-ORDER-502 Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5g_ms^4 - C_2C_5L_2s^3 + C_2C_5L_5s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2S_2g_ms + C_2s + C_5L_5g_ms^2 - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2L_4g_ms^4 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_4s^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5L_5s^3 + C_2C_4C_5L_2s^3 + C_2C
10.503 INVALID-ORDER-503 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \left(C_{4}L_{4}s^{2}+1\right)\left(C_{2}C_{5}L_{2}L_{5}s^{4}+C_{2}C_{5}L_{5}R_{2}s^{3}-C_{2}L_{2}L_{5}g_{m}s^{3}+C_{2}L_{2}s^{2}-C_{2}L_{5}R_{2}g_{m}s^{2}-C_{2}L_{5}s^{2}+C_{2}R_{2}s+C_{5}L_{5}s^{2}-L_{5}g_{m}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C_{5}L_{5}s^{2}+C
H(s) = -\frac{(C_4L_4s + 1)(C_2C_5L_2L_5s + C_2C_5L_5R_2s - C_2L_5R_2g_ms + C_2L_2s - C_2L_5R_2g_ms - C_2L_5s + C_2R_2s + C_5L_5s - L_5g_ms - C_2L_5s + C_2R_2s + C_5L_5s - L_5g_ms - C_2L_5s + C_2R_2s + C_2R_2
10.504 INVALID-ORDER-504 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                       \frac{\left(C_4L_4s^2+1\right)\left(C_2C_5L_2L_5g_ms^4+C_2C_5L_2sg_ms^3-C_2C_5L_2s^3+C_2C_5L_5s^3+C_2C_5L_5s^3+C_2C_5R_2s^2+C_2C_5R_2s^2+C_2L_2g_ms^2+C_2R_2g_ms+C_2s+C_5L_5g_ms^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^3+C_2C_4C_5L_2s^2+C_4C_5L_2s^2+C_4C_5L_2s^2+C_4C_5L_2s^2+C_4C_5L_2s^2+C_4C_5L_2s^2+C_4C_5L_2s^2+C_4C_5L_2s^2
10.505 INVALID-ORDER-505 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                  -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6}+C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5}+C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5}+2C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5}+C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5}+C_{2}C_{4}L_{2}L_{4}L_{5}g_{m}s^{5}+C_{2}C_{4}L_{2}L_{4}R_{5}g_{m}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}g_{m}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s
```

10.506 INVALID-ORDER-506
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \ \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5R_5g_ms^4 - C_2C_5L_2L_5s^4 + C_2C_5L_5R_2R_5g_ms^3 - C_2C_5L_5R_2s^3 + C_2C_5L_5R_2s^3 + C_2L_2L_5s^3 + C_2L_2L_5$$

10.507 INVALID-ORDER-507
$$Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)$$

 $H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(-C_2C_5L_2L_5R_5g_ms^4 + C_2C_4C_5L_2L_4R_5g_ms^5 + C_2C_4C_5L_2L_5R_5g_ms^4 + C_2C_4C_5L_4L_5g_ms^5 + C_2C_4C_5L_4L_5g_ms^5 + C_2C_4C_5L_4L_5g_ms^5 + C_2C_4C_5L_4L_5g_ms^5 + C_2C_4C_5L_4R_5g_ms^4 + C_2C_4C_5L_4R_5g_ms^4 + C_2C_4C_5L_5R_5g_ms^4 + C_2C_4C_5L_5R_5g_ms^4 + C_2C_4C_5L_4R_5g_ms^5 + C_2C_4C_5L_4R_5g$

10.508 INVALID-ORDER-508
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

$$H(s) = \frac{L_4s\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_2L_4R_5g_ms^4 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_4R_2s^3 + C_2C_4L_4R_5s^3 + C_2L_2R_5g_ms^2 + C_2L_2s^2 + C_2L_4s^2 + C_2L_4s^2 + C_2R_2s + C_2R_5s + C_4L_4s^2 + C_4L_4s^3 + C_4L_4$$

```
 10.509 \quad \text{INVALID-ORDER-509} \ Z(s) = \left( \infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{1}{C_5s}, \ \infty \right) 
 II(s) = \frac{L_4s \left( -C_2C_5L_2s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s - C_5s + g_m \right)}{2\left( C_2C_4C_5L_2L_4s^5 + C_2C_4L_2L_3g_ms^4 + C_2C_4L_2L_3g_ms^3 + C_2C_5L_2L_3g_ms^4 + C_2C_5L_2s^3 + C_2C_
```

10.512 INVALID-ORDER-512 $Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{2}L_{5}g_{m}s^{4} - C_{2}C_{5}L_{2}s^{3} + C_{2}C_{5}L_{5}s^{3} - C_{2}C_{5}R_{2}s^{2} + C_{2}L_{2}g_{m}s^{2} + C_{2}R_{2}g_{m}s + C_{2}s + C_{5}L_{5}g_{m}s^{2} - C_{5}s^{2}}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{3}g_{m}s^{4} + C_{2}C_{5}L_{2}s^{3} + C_{2}C_{5}L_{4}s^{3} + C_{2}C_{5}L_{5}s^{3} +$

10.513 INVALID-ORDER-513 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{L_{4}s\left(-C_{2}C_{5}L_{2}L_{5}s^{4} - C_{2}C_{5}L_{5}R_{2}s^{3} + C_{2}L_{2}L_{5}g_{m}s^{3} - C_{2}L_{2}s^{2} + C_{2}L_{5}s^{2} - C_{2}R_{2}s - C_{5}L_{5}s^{2} + L_{5}s^{2} - C_{5}L_{5}s^{2} + L_{5}s^{2} - C_{5}L_{5}s^{2} + L_{5}s^{2} - C_{5}L_{5}s^{2} + C_{5}L_{5}L_{5}s^{4} + C_{5}L_{5}$

10.514 INVALID-ORDER-514 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{2}L_{5}g_{m}s^{4} + C_{2}C_{5}L_{2}R_{5}g_{m}s^{3} - C_{2}C_{5}L_{2}s^{3} + C_{2}C_{5}L_{5}R_{2}g_{m}s^{3} + C_{2}C_{5}L_{5}s^{3} + C_{2}C_{5}L_{5}s^{3} + C_{2}C_{5}L_{5}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}L_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{4}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L$

10.515 INVALID-ORDER-515 $Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4s}{C_4L_4s^2 + 1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \ \infty\right)$

 $H(s) = \frac{L_4s\left(-C_2C_5L_2L_5R_5s^4 - C_2C_5L_2L_5R_5s^4 + C_2C_4L_4L_5R_5s^4 + C_2C_4L_4L_5$

10.516 INVALID-ORDER-516 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{L_4 s \left(C_2 C_5 L_2 L_5 R_5 g_m s^4 - L_2 C_4 C_5 L_2 L_4 L_5 R_5 g_m s^4 - L_2 C_4 L_2 L_4 L_5 R_5 g_m s^4 - L_2 C_4 L_4 L_5 R_5 g_m s^4 + C_2 C_4 L_5 R_5 g_m s^4 + C_2 C_4 L_5 R_5 g_m s^4 + C_2 C_4 L_5 R_5 g_m s^5 + C_2 C_4 R_5 R_5 g_m s$

10.517 INVALID-ORDER-517 $Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}$

```
10.518 INVALID-ORDER-518 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_2L_4g_ms^4 + C_2C_4L_2R_5g_ms^3 + C_2C_4L_2S^3 + C_2C_4L_2S^3 + C_2C_4L_2S^3 + C_2C_4R_2R_5g_ms^2 + C_2C_4R_2S^2 + 2C_2C_4R_4s^2 + C_2C_4R_2s^2 + 2C_2C_4R_4s^2 + C_2C_4R_2s^2 
10.519 INVALID-ORDER-519 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(-C_2C_5L_2s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2L_4g_ms^4 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_4s^3 + C_2C_4C_5L_4s^3 + C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_2s^2 + 2C_2C_4C_5R_2s^2 + C_2C_4R_2g_ms + C_2C_4S_2g_ms + C_2C_5R_2g_ms + 2C_2C_5S_2g_ms + 2C_2
10.520 INVALID-ORDER-520 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (C_4L_4s^2 + C_4R_4s + 1)(C_2C_5L_2R_5s^3 + C_2C_5R_2R_5)
                                        10.521 INVALID-ORDER-521 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_2R_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s + C_5R_5g_ms - C_5s + g_m\right)}{2s\left(C_2C_4C_5L_2L_4g_ms^4 + C_2C_4C_5L_2R_5g_ms^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5R_2s^2 + C_2C_4C_5R_
10.522 INVALID-ORDER-522 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                  \frac{\left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}L_{5}g_{m}s^{4}-C_{2}C_{5}L_{5}s^{3}+C_{2}C_{5}L_{5}s^{3}-C_{2}C_{5}R_{2}s^{2}+C_{2}L_{2}g_{m}s^{2}+C_{2}R_{2}g_{m}s+C_{2}s+C_{5}L_{5}g_{m}s^{2}-C_{5}s+g_{m}}{2s\left(C_{2}C_{4}C_{5}L_{2}L_{4}g_{m}s^{4}+C_{2}C_{4}C_{5}L_{2}S_{3}+C_{2}C_{4}C_{5}L_{2}S_{3}+C_{2}C_{4}C_{5}L_{4}S_{2}g_{m}s^{3}+C_{2}C_{4}C_{5}L_{5}S_{3}+C_{2}C_{4}C_{5}L_{5}S_{3}+C_{2}C_{4}C_{5}L_{2}S_{4}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{4}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}C_{4}C_{5}L_{2}S_{5}+C_{2}
10.523 INVALID-ORDER-523 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (C_4L_4s^2 + C_4R_4s + 1) (C_2C_5L_2L_5s^4 + C_2C_5L_5R_2s^3)
                                        -\frac{(44.41.45)(2.24.45)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.55)(2.44.
10.524 INVALID-ORDER-524 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5L_2s^3 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2C_5R_2s^2 + C_2C_5R_2s^3 + C_2C_4C_5L_2s^3 + C_2C_4C_5L_2s^
10.525 INVALID-ORDER-525 Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)
                                         10.526 INVALID-ORDER-526 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}R_{2}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{5}s^{4$

 $(C_4L_4s^2+C_4R_4s+1)(C_2C_5L_2L_5R_5g_ms^2)$

```
10.527 INVALID-ORDER-527 Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)
```

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}S^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}S^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}S^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}S^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}L_{5}S^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}S^{5} + C_{2}C_{4}C_{$

10.528 INVALID-ORDER-528
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ R_5, \ \infty\right)$$

 $H(s) = \frac{L_4 R_4 s \left(C_2 L_2 R_5 g_m s^2 - C_2 L_2 s^2 + C_2 R_2 R_5 g_m s - C_2 R_2 s + C_2 R_5 s + R_5 g_m - 1\right)}{2 \left(C_2 C_4 L_2 L_4 R_4 R_5 g_m s^4 + C_2 C_4 L_4 R_2 R_4 R_5 g_m s^3 + C_2 L_4 L_4 R_2 R_4 R_5 g_m s^3 + C_2 L_4 L_4 R_2 R_4 R_5 g_m s^3 + C_2 L_4 L_4 R_2 R_4 g_m s^3 + C_2 L_4 L_4 R_5 g_m s^3 + C_2 L_4 R_2 R_4 g_m s^3 + C_2 L_4 R_4 g_m$

10.529 INVALID-ORDER-529
$$Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \ \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{L_4 R_4 s \left(-C_2 C_5 L_2 s^3 - C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s - C_5 s + g_m\right)}{2 \left(C_2 C_4 C_5 L_2 L_4 R_4 s^5 + C_2 C_4 L_2 L_4 R_4 g_m s^4 + C_2 C_5 L_2 R_4 g_m s^4 + C_2 C_5 L_4 R_4 g_m s^4 + C_2$

10.530 INVALID-ORDER-530
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{L}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{4}S_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{4}S_{5}s^{4} + C_{2}C_{4}L_{4}R_{4}S_{5}s^{3} + C_{2}C_{4}L_{4}R_{4}S_{5}s^{3} + C_{2}C_{5}L_{4}R_{5}S_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}S_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}S_{5}s^{4} + C_{2}C_{5}L_{5}R_{5}S_{5}s^{4} + C_{2}C_{5}L_{5}R_{5}S_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}S_{5}s^{4} + C_{2}C_{5}L_{5}R_{5}S_{5}s^{4} + C_{2}C_{5$

10.531 INVALID-ORDER-531
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

10.532 INVALID-ORDER-532
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

 $H(s) = \frac{L_4 R_4 s \left(C_2 C_4 C_5 L_2 L_4 L_5 R_4 g_m s^6 + C_2 C_4 C_5 L_2 L_4 R_4 s^5 + C_2 C_4 C_5 L_4 L_5 R_4 g_m s^5 + C_2 C_4 C_5 L_4 L_5 R_4 g_m s^5 + C_2 C_4 C_5 L_4 L_5 R_4 g_m s^5 + C_2 C_4 L_4 L_5 R_4 g_m s^4 + C_2 C_5 L_2 L_4 R_4 g_m s^4 + C_2 C_5 L_4 L_5 R_4 g_m s^4 + C_2 C_5 L_5 L_5 R_4 g_m s^4 + C_2 C_5 L_5 L_5 R_5 g_m$

10.533 INVALID-ORDER-533
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{L_4}{2\left(C_2C_4C_5L_2L_4L_5R_4s^6 + C_2C_4C_5L_4L_5R_2R_4s^5 + C_2C_4L_2L_4L_5R_4g_ms^5 + C_2C_4L_4L_5R_4g_ms^4 + C_2C_4L_4L_5R_4g_ms^4 + C_2C_4L_4L_5R_4g_ms^5 + C_2C_5L_2L_4L_5R_4g_ms^5 + C_2C_5L_2L_4L_5R_4g_ms^4 + C_2C_5L_4L_5R_4g_ms^4 + C_2C_5L_4L_5R_4g_ms^4 + C_2C_4L_4L_5R_4g_ms^4 + C_2C_4L_4L_5R_4g_ms^4 + C_2C_5L_4L_5R_4g_ms^4 + C_2C_5L_4L_5R_4g_ms^4 + C_2C_4L_4L_5R_4g_ms^4 + C_2C_4L_4L_5R_4g_ms^4 + C_2C_4L_4L_5R_4g_ms^4 + C_2C_5L_4L_5R_4g_ms^4 + C_2C_5L_5L_5R_5g_ms^4 + C_2C_5L_5L_5R_5g_ms^$

10.534 INVALID-ORDER-534
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}g^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}g^{5} + C_{2}C_{4}C_{5}L_{4}R_{4}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{4}g_{m}s^{4} + C_{2}C_{4}L_{5}L_{4}R_{4}g_{m}s^{4} + C_{2}C_{4}L_{5}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{$

10.535 INVALID-ORDER-535
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}L_{$

```
10.536 INVALID-ORDER-536 Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}S_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}S_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{4}S_{6}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{4}S_{6}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{4}S_{6}s^{5$

10.537 INVALID-ORDER-537
$$Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}S^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}R_{$

10.538 INVALID-ORDER-538
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(C_2L_2R_5g_ms^2 - C_2L_2s^2 + C_2R_2R_5g_ms - C_2R_2s + C_2R_5s + R_5g_m - 1\right)}{2\left(C_2C_4L_2L_4R_4g_ms^4 + C_2C_4L_2L_4s^4 + C_2C_4L_4R_2s^3 + C_2C_4L_4R_2s^3 + 2C_2C_4L_4R_2s^3 + 2C_2C_4L_4R_2s^3 + C_2L_2R_4g_ms^2 + C_2L_2R_5g_ms^2 + C_2L_2s^2 + C_2L_4R_2g_ms^2 + C_2L_2s^2 + C_2L_4R_2g_ms^2 +$

10.539 INVALID-ORDER-539
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(-C_2C_5L_2s^3 - C_2C_5R_2s^2 + C_2L_2g_ms^2 + C_2R_2g_ms + C_2s - C_5s + g_m\right)}{2\left(C_2C_4C_5L_2L_4R_4g_ms^5 + C_2C_4L_2L_4g_ms^4 + C_2C_4L_2L_4g_ms^4 + C_2C_4L_4R_2g_ms^3 + C_2C_5L_2R_4g_ms^3 + C_2C$

10.540 INVALID-ORDER-540
$$Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}R_{2}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}R_{4}R_{5}g_{m}s^$

10.541 INVALID-ORDER-541
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{\left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right) \left(C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_2 g_m s^3 - C_2 C_5 L_2 s^3 + C_2 C_5 R_2 g_m s^4 + C_2 C_4 C_5 L_4 R_4 g_m s^4 + C_2 C_4 C_5 L_4 R_5 g_m s^4 + C_2 C_4 C_5 L_4 R_2 g_m s^4 + C_2 C_4 C_5 L_4 R_2 g_m s^4 + C_2 C_4 C_5 L_4 R_2 g_m s^4 + C_2 C_4 L_4 R_2 g_m s^3 + C_2 C_4 L_4 g_m s^4 + C_2 C_5 L_2 R_4 g_m s^4 + C_2 C_4 C_5 L_4 R_2 g_m s^4 + C_2 C_4 L_4 R_2 g_m s^4 +$

10.542 INVALID-ORDER-542
$$Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{(C_4L_4R_4s^3 + L_4s + R_4)(C_2C_5L_2L_5g_ms^3 - C_2C_5L_2s^3 + C_2C_5L_5}{2(C_2C_4C_5L_2L_4L_5g_ms^6 + C_2C_4C_5L_4L_5s^5 + C_2C_4C_5L_4L_5s^5 + C_2C_4C_5L_4R_2s^4 + 2C_2C_4C_5L_4R_4s^4 + C_2C_4L_4R_2g_ms^3 + C_2C_4L_4s^3 + C_2C_5L_2L_4g_ms^4 + C_2C_5L_2L_5g_ms^4 + C_2C_4L_4R_4s^4 + C_2C$

10.543 INVALID-ORDER-543
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{3}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}S^{4} + C_{2}C_{4}L_{4}L_{5}S^{4} + C_{2}C_{4}L_{4}L_{5}$

10.544 INVALID-ORDER-544
$$Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{(C_4L_4R_4s^2 + L_4s + R_4)}{2\left(C_2C_4C_5L_2L_4L_5g_ms^6 + C_2C_4C_5L_2L_4R_5g_ms^5 + C_2C_4C_5L_4L_5s^5 + C_2C_4C_5L_4R_2g_ms^4 + C_2C_4C_5L_4R_2s^4 + 2C_2C_4C_5L_4R_4s^4 + C_2C_4C_5L_4R_5s^4 + C_2C_4C_5L_4R$

- 10.545 INVALID-ORDER-545 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
- $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{5}R_{5}g_{m}s^$
- 10.546 INVALID-ORDER-546 $Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4s}{C_4L_4s^2 + 1} + R_4, \ \frac{L_5s}{C_5L_5s^2 + 1} + R_5, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}S_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{4}L_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{5}L_{5}g_{m}s^{5} + C_{2}C_{4}L_{5}L_{$
- 10.547 INVALID-ORDER-547 $Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{L_4s}{C_4L_4s^2 + 1} + R_4, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)$
- $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^$
- 10.548 INVALID-ORDER-548 $Z(s) = \left(\infty, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$
- 10.549 INVALID-ORDER-549 $Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{1}{C_5 s}, \ \infty\right)$
- $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(-C_2 C_5 L_2 s^3 C_2 C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s C_5 R_2 s^2 + C_2 L_2 g_m s^2 + C_2 R_2 g_m s + C_2 s C_5 R_2 s^2 + C_2 R_2 g_m s + C_2 R_2 g_m s + C_2 R_2 g_m s + C_2 R_2 R_2 g_m s^2 + C_2 R_2 R_2 R_2 g_m s^2 + C_2 R_2 R_2 g_m s^2 + C$
- 10.550 INVALID-ORDER-550 $Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \ \frac{R_5}{C_5R_5s + 1}, \ \infty\right)$
- $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{5}g_{m}s^{4} + C_{2$
- 10.551 INVALID-ORDER-551 $Z(s) = \left(\infty, L_2s + R_2 + \frac{1}{C_2s}, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{4}$
- 10.552 INVALID-ORDER-552 $Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{4}g_{m}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{4}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{$
- 10.553 INVALID-ORDER-553 $Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$

```
10.554 INVALID-ORDER-554 Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}S_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}S_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}S_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}S_{5}g_{m}$

10.555 INVALID-ORDER-555
$$Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2 + C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}$

10.556 INVALID-ORDER-556
$$Z(s) = \left(\infty, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{$

10.557 INVALID-ORDER-557
$$Z(s) = \left(\infty, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{$

10.558 INVALID-ORDER-558
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4, \ \frac{1}{C_5s}, \ \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 - C_5 L_2 s^2 - C_5 R_2 s + L_2 g_m s + R_2 g_m + 1\right)}{2 \left(C_2 C_5 L_2 R_2 g_m s^3 + C_2 C_5 L_2 R_2 s^3 + 2 C_2 C_5 L_2 R_4 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_5 L_2 R_4 g_m s^2 + C_5 L_2 s^2 + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + L_2 g_m s + R_2 g_m + 1\right)}$$

10.559 INVALID-ORDER-559
$$Z(s) = \left(\infty, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_2 R_5 s^3 + C_2 L_2 R_2 S_2 s^2 + C_2 L_2 R_5 s^2 - C_5 L_2 R_5 s^2 - C_5 R_2 R_5 s + L_2 R_5 g_m s - L_2 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_2 C_5 L_2 R_2 R_5 s^3 + C_2 C_5 L_2 R_4 R_5 s^3 + C_2 L_2 R_2 R_5 g_m s^2 + C_2 L_2 R_2 s^2 + 2 C_2 L_2 R_4 s^2 + C_2 L_2 R_5 s^2 + C_5 L_2 R_4 R_5 g_m s^2 + C_5 L_2 R_5 s^2 + C_5 R_2 R_5 s + L_2 R_5 g_m s + L_2 R_5 g_m$$

10.560 INVALID-ORDER-560
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 R_2 R_5 g_m s^3 - C_2 C_5 L_2 R_2 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_5 L_2 R_5 g_m s^2 - C_5 L_2 s^2 + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_5 s + L_2 g_m s + R_2 g_m + 1 \right)}{2 \left(C_2 C_5 L_2 R_2 R_5 g_m s^3 + C_2 C_5 L_2 R_2 s^3 + 2 C_2 C_5 L_2 R_4 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_5 L_2 R_5 g_m s^2 + C_5 L_2 R_5 g_m s^2 + C_5 L_2 R_5 g_m s + C_5 R_2 R_5 g_m s + C_5 R_5 R_5 g_m s +$$

10.561 INVALID-ORDER-561
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 - C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_5 L_2 S^2 + C_5 L_2 S^2 + C_5 L_2 S^2 + C_5 L_5 s^2 - C_5 R_2 s + L_2 g_m s + R_2 g_m + 1 \right)}{2 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 R_2 R_4 g_m s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 S^2 + C_5 L_2 L_5 g_m s^3 + C_5 L_2 R_2 g_m s^2 + C_5 L_5 S^2 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 S^2 + C_5 L_5 R_2 g_m s^2 + C_5 L_5 R_2 g$$

10.562 INVALID-ORDER-562
$$Z(s) = \left(\infty, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 L_5 R_2 s^4 + C_2 L_2 L_5 R_2 g_m s^3 + C_2 L_2 L_5 s^3 - C_5 L_2 L_5 s^3 - C_5 L_2 L_5 s^3 - C_5 L_2 L_5 g_m s^2 - L_2 s + L_5 R_2 g_m s + L_5 s - R_2 \right)}{2 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 R_2 s^4 + 2 C_2 C_5 L_2 L_5 R_4 s^4 + C_2 L_2 L_5 R_2 g_m s^3 + C_2 L_2 R_2 s^2 + 2 C_2 L_2 R_4 s^2 + C_5 L_2 L_5 s^3 + C_5 L_2 L_5 s^3 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + L_2 L_5 g_m s^2 + L_2 R_4 g_m s^3 + C_5 L_2 L_5 R_4 g_m s^3 + C_5 L_2 L_5 R_4 g_m s^3 + C_5 L_5 R_2 g_m s^3 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + L_2 L_5 g_m s^2 + L_2 L_5 g_m s^3 + C_5 L_5 R_2 s^2 + 2 C_5 L_5 R_4 s^2 + L_5 L_5 R_2 g_m s^3 + L_5 R_2 g_m s^3 + C_5 L_$$

```
10.563 INVALID-ORDER-563 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)
```

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + C_2 C_5 L_2 R_2 g_m s^3 - C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_5 L_2 R_2 g_m s^3 + C_5 L_2 R_5 g_m s^3 - C_5 L_2 s^2 + C_5 L_2 R_5 g_m s^3 + C_5 L_2 R_5 g_m s^2 + C_5 L_2 R_5 g_m s^3 +$

10.564 INVALID-ORDER-564 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$

10.565 INVALID-ORDER-565 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 - C_2 C_5 L_2 L_5 R_2 s^4 + C_2 L_2 L_5 R_3 s^4 + C_2 L_2 L_5 R_$

10.566 INVALID-ORDER-566 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 - C_2 C_5 L_2 L_5 R_2 s^4 + C_2 C_5 L_2 L_5 R_5 s^4 - C_2 C_5 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + C_5 L_2 R_5 s^2 + C_5 L_2 R_5 s^2 + C_5 L_2 R_5 g_m s^2 - C_5 L_2 R_5 g_m s^2 - C_5 L_2 R_5 g_m s^2 - C_5 L_2 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^$

10.567 INVALID-ORDER-567 $Z(s) = \left(\infty, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \frac{1}{C_4 s}, \ R_5, \ \infty\right)$

 $H(s) = \frac{C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + L_2R_5g_ms - L_2s + R_2R_5g_m - R_2 + R_5}{2\left(C_2C_4L_2R_2s^3 + C_2C_4L_2R_5s^3 + C_2L_2R_2g_ms^2 + 2C_2L_2s^2 + C_4L_2R_5g_ms^2 + C_4L_2s^2 + C_4R_2R_5g_ms + C_4R_2s + C_4R_5s + L_2g_ms + R_2g_m + 2\right)}$

10.568 INVALID-ORDER-568 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right)$

$$H(s) = \frac{-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2s^2 - C_5R_2s + L_2g_ms + R_2g_m + 1}{2s\left(C_2C_4C_5L_2R_2s^3 + C_2C_4L_2R_2g_ms^2 + C_2C_5L_2R_2g_ms^2 + 2C_2C_5L_2s^2 + C_4C_5L_2s^2 + C_4C_5R_2s + C_4L_2g_ms + C_4R_2g_m + C_4 + C_5L_2g_ms + C_5R_2g_m + 2C_5\right)}$$

10.569 INVALID-ORDER-569 $Z(s) = \left(\infty, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2s^2 + C_2L_2R_5s^2 - C_5L_2R_5s^2 - C_5L_2R_5s^2 - C_5R_2R_5s + L_2R_5g_ms - L_2s + R_2R_5g_m - R_2 + R_5}{2\left(C_2C_4C_5L_2R_2S^3 + C_2C_4L_2R_2s^3 + C_2C_4L_2R_5s^3 + C_2C_5L_2R_5s^3 + C_2L_2R_2g_ms^2 + 2C_2L_2s^2 + C_4C_5L_2R_5s^3 + C_4L_2R_5g_ms^2 + C_4L_2$

10.570 INVALID-ORDER-570 $Z(s) = \left(\infty, \ \frac{L_{2s}}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{C_2C_5L_2R_2S_g_ms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2R_5g_ms^2 - C_5L_2s^2 + C_5R_2S_g_ms - C_5R_2s + C$

10.571 INVALID-ORDER-571 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{1}{C_4s}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_5L_2S^2 + C$

```
 10.572 \quad \text{INVALID-ORDER-572} \ Z(s) = \left( \infty, \frac{t_{25}}{c_{242}s^{2}+1} + R_{2}, \, \infty, \frac{1}{c_{4s}}, \, \frac{t_{25}}{c_{242}s^{2}+1}, \, \infty \right) 
 - \frac{-C_{2}C_{242}t_{24}R_{5}s^{4} + C_{2}L_{2}L_{2}R_{2}g_{m}s^{3} + C_{2}L_{2}L_{2}g_{3}^{3} - C_{2}L_{2}R_{5}s^{3} - C_{2}L_{2}R_{5}s^{3} - C_{2}L_{2}R_{5}s^{3} - C_{2}L_{2}R_{5}s^{3} + C_{2}L_{2}L_{2}g_{m}s^{3} + L_{2}L_{2}g_{m}s^{3} + C_{2}L_{2}L_{2}g_{m}s^{3} + L_{2}L_{2}g_{m}s^{3} + C_{2}L_{2}L_{2}g_{m}s^{3} + C_{2}L_{2}L_{2}g_{
```

10.576 INVALID-ORDER-576 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$

 $H(s) = \frac{C_2C_5L_2L_5R_2S_9ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 - C_2C_5L_2R_2S_9ms^2 - C_2L_2R_2s^2 + C_2L_2R_2s^$

10.577 INVALID-ORDER-577 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ R_5, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 L_2 R_2 g_m s^2 - C_2 L_2 R_2 s^2 + L_2 R_5 g_m s - L_2 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left(C_2 C_4 L_2 R_4 R_5 g_m s^3 + C_2 C_4 L_2 R_4 g_s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 R_2 s^2 + 2 C_2 L_2 R_4 s^2 + C_2 L_2 R_4 s^2 + C_4 L_2 R_4 g_s s^2 + C_4 L_2 R_4 g_s s + L_2 R_4 g_m s + L_2 R_5 g_m s + L_2 R_4 g_m s + L_2 R_5 g_m s^2 + C_4 R_2 R_4 g_s s^2 + C_4 R_4 g_s s^2 +$

10.578 INVALID-ORDER-578 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ \frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 - C_5 R_2 s + L_2 g_m s + R_2 g_m + 1 \right)}{2 \left(C_2 C_4 C_5 L_2 R_2 R_4 s^4 + C_2 C_4 L_2 R_2 R_4 g_m s^3 + C_2 C_5 L_2 R_2 s^3 + 2 C_2 C_5 L_2 R_4 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_4 C_5 L_2 R_4 s^3 + C_4 L_2 R_4 g_m s^2 + C_4 L_2 R_4 g_m s^2 + C_5 L_2 R_4 g_m s^2 +$

10.579 INVALID-ORDER-579 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_2 R_5 s^3 + C_2 L_2 R_2 S_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 - C_5 L_2 R_5 s^3 + C_2 C_5 L_2 R_4 R_5 s^3 + C_2 C_5 L_2 R_5 R_5 r_5 + C_2 C_5 L_2 R_5 r_5 + C$

10.580 INVALID-ORDER-580 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 R_2 R_5 g_m s^3 - C_2 C_5 L_2 R_2 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_5 L_2 R_5 g_m s^2 - C_5 L_2 R_5 g_m s^2 - C_5 L_2 R_5 g_m s^3 + C_2 C_5 L_2 R_2 R_4 g_m s^4 + C_2 C_4 C_5 L_2 R_2 R_4 g_m s^3 + C_2 C_5 L_2 R_2 R_4 g_m s^3 + C_2 C_5 L_2 R_2 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_4 C_5 L_2 R_4 g_m s^3 + C_4 C_5 L_2 R_$

```
10.581 INVALID-ORDER-581 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)
```

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 - C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_5 L_2 L_5 g_m s^3 - C_5 R_2 R_2 g_m s^4 + C_2 C_5 L_2 L_5 R_4 g_m s^5 + C_2 C_4 C_5 L_2 L_5 R_4 g_m s^3 + C_2 C_5 L_2 L_5 R_4 g_m s^3 + C_2 C_5 L_2 R_2 g_m s^4 + C_2 C_5 L_2$

10.582 INVALID-ORDER-582 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(-C_2 C_5 L_2 L_5 R_2 s^4 + C_2 L_2 L_5 R_2 g_m s^3 + C_2 L_2 L_5 s^3 - C_2 L_2 R_2 s^2 - C_5 L_2 L_5 s^3 - C_2 L_2 R_2 s^2 - C_5 L_2 L_5 s^3 - C_2 L_2 R_2 s^2 - C_5 L_2 L_5 R_2 R_4 s^4 + C_2 L_2 L_5 R_4$

10.583 INVALID-ORDER-583 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 s^4 + C_2 C_5 L_2 R_2 R_4 g_m s^3 + C_2 C_5 L_2 R_$

10.584 INVALID-ORDER-584 $Z(s) = \left(\infty, \ \frac{L_{2}s}{C_{2}L_{2}s^{2}+1} + R_{2}, \ \infty, \ \frac{R_{4}}{C_{4}R_{4}s+1}, \ \frac{L_{5}R_{5}s}{C_{5}L_{5}R_{5}s^{2}+L_{5}s+R_{5}}, \ \infty\right)$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{4} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{$

10.585 INVALID-ORDER-585 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{5}R_{4}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{4}s^{4} + C_{2}C_{4}L_{2}R_{4}s^{3} + C_{2}C_{4}L_{2}R_{4}s^{3} + C_{2}C_{4}L_{2}R_{4}s^{3} + C_{2}C_{4}L_{2}R_{4}s^{3} + C_{2}C_{5}L_{2}L_{5}R_{2}s^{4} + C_{2}C_{5}L_{2}L_{5}R_{2}s^{4$

10.586 INVALID-ORDER-586 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{5}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{5}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{5}R_{2}s^{4} + C_{2}C_{5}L_$

10.587 INVALID-ORDER-587 $Z(s) = \left(\infty, \ \frac{L_{2s}}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ R_5, \ \infty\right)$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + L_2R_5g_ms - L_2s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_2C_4L_2R_2R_5g_ms^3 + C_2C_4L_2R_2s^3 + 2C_2C_4L_2R_4s^3 + C_2C_4L_2R_5s^3 + C_2L_2R_2g_ms^2 + 2C_2L_2s^2 + C_4L_2R_4g_ms^2 + C_4L_2s^2 + C_4R_2s_4g_ms + C_4R_2s_5g_ms + C_4$

10.588 INVALID-ORDER-588 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5R_2s + L_2g_ms + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_2R_2g_ms^3 + C_2C_4C_5L_2R_2s^3 + 2C_2C_4L_2R_2g_ms^2 + C_2C_5L_2s^2 + C_4C_5L_2R_4g_ms^2 + C_4C_5L_2R_4g_ms + C_4C_5R_2s + 2C_4C_5R_4s + C_4L_2g_ms + C_4R_2g_m + C_4C_5L_2g_ms + C_4C_5R_2s +$

10.589 INVALID-ORDER-589 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$

 $H(s) = -\frac{(C_4R_4s+1)\left(C_2C_5L_2R_2R_5s^3 - C_2L_2R_2R_5g_ms^2 + C_2L_2R_2s^2 - C_2L_2R_5s^2 + C_5L_2R_5s^2 + C_5L_2R_5s^2 + C_5L_2R_5s^2 + C_5L_2R_5s^3 +$

```
10.590 INVALID-ORDER-590 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)
```

 $H(s) = \frac{(C_4R_4s+1)\left(C_2C_5L_2R_2S_g_ms^3 - C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2R_5g_ms^2 - C_5L_2s^2 + C_5R_2S_g_ms - C_5R_2s + C_5R_5s + L_2g_ms + R_2g_m + C_5R_2S_g_ms^3 + C_2C_4C_5L_2R_2S_g_ms^3 + C_2C_4C_5L_2R_2S_g_ms^3 + C_2C_4C_5L_2R_2S_g_ms^2 + C_2C_4L_2S_g_ms^2 + C_2C_5L_2S_g_ms^2 + C_2C_5L_2S_g_ms^2 + C_4C_5L_2R_2S_g_ms^2 + C_4C_5L_2R$

10.591 INVALID-ORDER-591
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{(C_4R_4s+1)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_5L_2S^2 + C_5L_2S^2 + C_5L_5R_2g_ms^3 - C_5L_2s^2 + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + L_2g_ms + R_2g_ms^2 + C_2C_4C_5L_2R_2g_ms^4 + C_2C_4C_5L_2R_2g_ms^4 + C_2C_4C_5L_2R_2g_ms^2 + C_2C_4L_2R_2g_ms^2 + C_2C_5L_2R_2g_ms^2 + C_2C_5L_2R_2g_ms^3 + C_4C_5L_2R_2g_ms^3 + C_4C_5L_2R_2g$

10.592 INVALID-ORDER-592
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$$

 $H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2L_5R_2s^4 - C_2L_2L_5R_2g_ms^3 - C_2L_2L_5s^3 + C_2L_2R_2s^2 + C_5L_2L_5s^3 - C_4L_2R_2s^3 + C_4L_2R_2s$

10.593 INVALID-ORDER-593
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2R_2g_ms^3 + C_5L_2R_5g_ms^3 + C_$

10.594 INVALID-ORDER-594
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5} + 2C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{2}s^{4} + 2C_{2}C_{4}L_{2}L_{5}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{5}s^{4} + C_{2}C_{4}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{4}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{4}L_{5}L_{5}R_{5}s^{4} + C_{2}C$

10.595 INVALID-ORDER-595
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$$

 $H(s) = \frac{(C_4R_4s+1)\left(C_2C_5L_2L_5R_2g_ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_4L_2L_5R_2s^4 + C_2C_4L_2L_5R_2s^4 + C_2C_4L_2R_2R_3s^3 + C_2C_4L_2R_2s^3 + C_2C_4L_2R_2$

10.596 INVALID-ORDER-596
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} +$

10.597 INVALID-ORDER-597
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ R_5, \ \infty\right)$$

 $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2L_2R_2Sg_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + L_2R_5g_ms - L_2s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_2C_4L_2L_4Sg_ms^4 + 2C_2C_4L_2R_2Sg_ms^3 + C_2C_4L_2R_2S^3 + C_2L_2R_2S^3 + C_2L_2R_2g_ms^2 + 2C_2L_2S^2 + C_4L_2R_2g_ms^2 + 2C_4L_2S^2 + C_4L_2R_2g_ms^2 + 2C_4L_2S^2 + C_4L_2S^2 + C_4L_2S^$

10.598 INVALID-ORDER-598
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2S^2 - C_5L_2s^2 - C_5L_2s^2 - C_5L_2s^2 - C_5R_2s + L_2g_ms + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_2L_4R_2g_ms^4 + 2C_2C_4C_5L_2R_2s^3 + C_2C_4L_2s^2 + C_2C_5L_2s^2 + C_4C_5L_2R_2g_ms^2 + 2C_4C_5L_4R_2g_ms^2 + 2C_4C_5L_4s^2 + C_4C_5L_2s^2 + C_4C_5L_4s^2 + C_4C_5L_2s^2 + C_4C_5L_4s^2 + C_4C_5L_2s^2 + C_4C_5L_4s^2 + C_4$

```
10.599 INVALID-ORDER-599 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (C_4L_4s^2+1)(C_2C_5L_2R_2R_5s^3-C_2L_2R_2R_5g_ms^2+C_2L_2R_2s^2-C_2L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_2R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5L_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s^2+C_5R_5s
H(s) = -\frac{(C_4L_4S + 1)(C_2C_5L_2R_2R_5s - C_2L_2R_2R_5s - C_2L_2R_2s - C_2L_2R_2
10.600 INVALID-ORDER-600 Z(s) = \left(\infty, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, L_4s + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_5L_2R_5g_ms^2 - C_5L_2s^2 + C_5R_2g_ms^2 - C_5L_2s^2 + C_5R_2g_ms - C_5R_2s + C_
10.601 INVALID-ORDER-601 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5g_ms^4 + C_2C_5L_2g_ms^4 + C_2C_5L_2g_ms^2 + C_2L_2s^2 + C_5L_2g_ms^3 - C_5L_2s^2 + C_5L_5g_ms^3 - C_5L_2s^2 + C_5L_5g_ms^3 - C_5L_2s^2 + C_5L_5g_ms^3 - C_5L_2s^2 + C_5L_5g_ms^3 + C_5L_5s^2 - C_5R_2s + L_2g_ms + R_2g_ms^3 + C_5L_2g_ms^3 + C_5L_2g_ms
10.602 INVALID-ORDER-602 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         H(s) = -\frac{(C_4 L_4 L_5 L_2 L_4 L_5 R_2 g_m s^6 + 2 C_2 C_4 L_2 L_4 L_5 s^6 + C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s^4 + 2 C_2 C_4 L_4 L_5 R_2 g_m s^4 + 2 C_2 C_4 L_4 L_5 R_2 g_m s^4 + 2 C_2 C_4 L_4 L_5 R_2 g_m s^4 + 2 C_2 C_4 L_4 L_5 R_2 g_m s^4 + 2 C_2 C_4 L_4 L_5 R_2 g_m s^4 + 2 C_2 C_4 L_4 L_5 R_2 g_m s^4 + 2 C_2 C_4 L_4 L_5 R_2 g_m s^4 + 2 C_2 C_4 L_4 L_5 R_2 g_m s^4 + 2 C_4 L_4 L_5 R_4 g_m s^4 + 2 C_4 L_4 L_5 R_5 g_m s^4 + 2 C_4 L_5 L_5 R_5 g_m s^4 + 2 C_4 L_5 L_5 R_5 g_m s^4 + 2 C_4 L_5 L_5 R_5 g_m s^4 + 2 C_5 L_5 L_5 R_5 g_m s^4 + 2 C_5 L_5 L_5 R_5 g_m s^4 + 2 C_5 L_5
10.603 INVALID-ORDER-603 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)
                                                 \frac{\left(C_{4}L_{4}s^{2}+1\right)\left(C_{2}C_{5}L_{2}L_{5}R_{2}g_{m}s^{4}+C_{2}C_{5}L_{2}L_{5}s^{4}+C_{2}C_{5}L_{2}R_{5}g_{m}s^{3}-C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}L_{2}R_{2}g_{m}s^{2}+C_{2}L_{2}s^{2}+C_{5}L_{2}L_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{2}-C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{2}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_{5}g_{m}s^{3}+C_{5}L_{5}R_
10.604 INVALID-ORDER-604 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)
```

 $-\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}g_{m}s^{6}+2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6}+C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}g_{m}s^{5}+2C_{2}C_{4}L_{2}L_{4}L_{5}s^{5}+C_{2}C_{4}L_{2}L_{4}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4$

10.605 INVALID-ORDER-605 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$

 $(C_4L_4s^2+1)(C_2C_5L_2L_5R_2R_5g_ms^4-C_2C_5L_2L_5R_2s^4+C_2C_5L_2L_5R_5s^4+C_2C_5L_5R_5s^4+C_2C_5L_5R_5s^4+C_2C_5L_5R_5s^4+C_2C_5L_5R_5s^2+C_5L_5R_5s^2+C_5R_5s^2+$ $H(s) = \frac{(C_4 L_4 S_5 + I_2)(C_2 C_5 L_2 L_5 I_4 L_5 I_5 g_m s_5 - C_2 C_5 L_2 L_5 I_4 L_5 s_m s_5 - C_2 C_5 L_2 L_5 I_4 L_5 s_m s_5 - C_2 C_5 L_2 L_5 I_4 L_5 s_5 + C_2 C_4 C_5 L_2 L_4 L_5 R_5 g_m s_5 + C_2 C_4 L_2 L_4 R_2 g_m s_4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s_4 + 2 C_2 C_4 L_2 L_4 R_2 g_m s_4 + 2 C_2 C_4 L_2 L_5 R_5 s_5 + C_2 C_4 L_2 L_5 R_5 s_5 + C_2 C_4 L_2 L_5 R_5 s_5 + C_2 C_4 L_2 L_4 R_2 g_m s_4 + 2 C_2 C_4 L_2 L_5 R_5 g_m s_4 + 2 C_2 C_4 L_2 L_5 R_5 g_m s_5 + C_2 C_4 L_2 L_5 R_5 s_5 + C_2 C_4 L_5 L$

10.606 INVALID-ORDER-606 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty \right)$

 $\overline{2(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}$

10.607 INVALID-ORDER-607 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ R_5, \ \infty\right)$

 $L_4s\left(C_2L_2R_2R_5g_ms^2-C_2L_2R_2s^2+C_2L_2R_5s^2+L_2R_5g_ms-L_2s+R_2R_5g_m-R_2+R_5\right)$ $H(s) = \frac{L_4s \left(C_2 L_2 L_4 C_3 gm^5 - C_2 L_2 L_4 Gm^5 - C_2 L_4 L$

```
10.608 INVALID-ORDER-608 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{1}{C_5s}, \ \infty\right)
H(s) = \frac{L_4s\left(-C_2C_5L_2R_2s^3 + C_2L_2S^2 - C_5L_2s^2 - C_5L_2s^2 - C_5L_2s^2 - C_5R_2s + L_2g_ms + R_2g_m + 1\right)}{2\left(C_2C_4C_5L_2L_4R_2g_ms^4 + C_2C_4L_2L_4S^4 + C_2C_5L_2L_4S^4 + C_2C_5L_2R_2s^3 + C_2L_2S^2 + C_4C_5L_2L_4S^4 + C_4C_5L_4R_2s^3 + C_4L_4R_2g_ms^3 + C_4L_4R_2g_ms^3 + C_4L_4R_2g_ms^3 + C_5L_2S^2 + C_5L_4R_2g_ms^3 + C_
10.609 INVALID-ORDER-609 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               L_{4}s\left(-C_{2}C_{5}L_{2}R_{2}R_{5}s^{3}+C_{2}L_{2}R_{2}R_{5}g_{m}s^{2}-C_{2}L_{2}R_{2}s^{2}+C_{2}L_{2}R_{5}s^{2}-C_{5}L_{2}R_{5}s^{2}-C_{5}L_{2}R_{5}s^{2}-C_{5}L_{2}R_{5}s^{2}-C_{5}L_{2}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}-C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}
H(s) = \frac{L_{4}s \left(-C_{2}C_{5}L_{2}R_{2}R_{5}s^{5} + C_{2}L_{2}R_{2}R_{5}g_{m}s^{4} - C_{2}L_{2}R_{2}s^{5} + C_{2}L_{2}R_{5}s^{5} - C_{5}L_{2}R_{5}s^{5} - C_{5}L_{2}R_{5}s^{5} - C_{5}L_{2}R_{5}s^{5} - C_{5}L_{2}R_{5}s^{5} - C_{5}L_{2}R_{5}s^{5} - C_{5}L_{2}R_{5}s^{5} + C_{2}L_{2}R_{5}s^{5} + C_{2}L_{2}R_{5}s^{5} + C_{2}L_{2}R_{5}s^{5} + C_{2}L_{2}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{4} + C_
10.610 INVALID-ORDER-610 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)
H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{2}R_{2}sg_{m}s^{3} - C_{2}C_{5}L_{2}R_{2}s^{3} + C_{2}L_{2}R_{2}g_{m}s^{2} + C_{2}L_{2}s^{2} + C_{5}L_{2}R_{5}g_{m}s^{2} - C_{5}L_{2}R_{5}g_{m}s^{2} - C_{5}L_{2}R_{5}g_{m}s^{2} + C_{5}L_{5}R_{5}g_{m}s^{2} + C_{5}L_{5}R_{5}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   L_{4}s\left(C_{2}C_{5}L_{2}R_{2}R_{5}g_{m}s^{3}-C_{2}C_{5}L_{2}R_{2}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}L_{2}R_{2}g_{m}s^{2}+C_{2}L_{2}s^{2}+C_{5}L_{2}R_{5}g_{m}s^{2}-C_{5}L_{2}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{
10.611 INVALID-ORDER-611 Z(s) = \left(\infty, \ \frac{L_{2s}}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_{4s}}{C_4L_4s^2+1}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)
H(s) = \frac{L_4s\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_5L_2L_5g_ms^3 - C_5R_2g_ms^4 + C_2C_5L_2L_4S_2g_ms^4 + C_2C_5L_2L
10.612 INVALID-ORDER-612 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)
                                                     \frac{L_{4}s\left(-C_{2}C_{5}L_{2}L_{5}R_{2}s^{4}+C_{2}L_{2}L_{5}R_{2}g_{m}s^{3}+C_{2}L_{2}L_{5}s^{3}-C_{2}L_{2}R_{2}s^{2}-C_{5}L_{2}L_{5}s^{3}-C_{2}L_{2}L_{5}s^{3}-C_{2}L_{2}L_{5}s^{3}-C_{2}L_{2}L_{5}s^{3}-C_{2}L_{2}L_{5}s^{3}-C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{3}+C_{2}L_{2}L_{5}s^{
10.613 INVALID-ORDER-613 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)
H(s) = \frac{L_4s \left( \cup_2 \cup_5 L_2 L_5 n_2 y_m s^6 + C_2 C_4 C_5 L_2 L_4 R_2 s^5 + C_2 C_4 C_5 L_2 L_4 R_2 s^5 + C_2 C_4 C_5 L_2 L_4 R_2 s^5 + C_2 C_4 L_2 L_4 R_2 s^5 + C_2 C_4 L_2 L_4 R_2 s^6 + C_2 C_5 L_2 L_4 R_2 s^6 + C_2 C_5 L_2 L_4 R_2 s^5 + C_2 C_4 L_2 L_4 R_2 s^5 + C_2 C_4 L_2 L_4 R_2 s^6 + C_2 C_5 L
10.614 INVALID-ORDER-614 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)
H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}L_{5}R_{5}s^{
10.615 INVALID-ORDER-615 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)
                                                     \overline{2(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}L_{5}L_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}L_{5
10.616 INVALID-ORDER-616 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}q_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{4}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} +$

```
10.617 INVALID-ORDER-617 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ R_5, \ \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2L_2R_2g_{gm}s^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + L_2R_5g_{ms} - L_2s + R_2R_5g_{m} - R_2 + R_5\right)}{2\left(C_2C_4L_2L_4g_{gm}s^4 + 2C_2C_4L_2R_2g_{ms}s^3 + C_2C_4L_2R_2g_{ms}s^3 + C_2C_4L_2R_2s^3 + 2C_2L_2R_2s^3 + 2C_2L_2R_2s^2 + C_4L_2R_2g_{ms}s^2 + C_4L_2R_4g_{ms}s^2 + C_4L_2R_5g_{ms}s^2 + C_4L_2R_2g_{ms}s^2 + C_4L_2R_2g_{ms}s
10.618 INVALID-ORDER-618 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \left(C_4L_4s^2 + C_4R_4s + 1\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2s^2 - C_5R_2s + L_2g_ms + R_2g_m + 1\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2S^2 - C_5L_2s^2 - C_5R_2s + L_2g_ms + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_2L_4R_2g_ms^4 + 2C_2C_4L_2S^2 + C_2C_4L_2S^2 + C_2C_4L_2S^2 + C_2C_4L_2S^2 + C_4C_5L_2R_4g_ms^3 + C_4C_5L_4R_4g_ms^3 + C_4C_5L_4R
10.619 INVALID-ORDER-619 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)
                                                                  -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}g_{m}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5}+C_{2}C_{4}C_{5}L_{2}R_{2}R_{4}R_{5}g_{m}s^{4}+C_{2}C_{4}C_{5}L_{2}R_{2}R_{5}s^{4}+2C_{2}C_{4}L_{2}L_{4}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{4}R_{2}g_{m}s^{4}+2C_{2}C_{4}L_{2}R_{2}g_{m}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+2C_{2}C_{4}L_{2}R_{2}s^{3}+2C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+C_{2}C_{4}L_{2}R_{2}s^{3}+
10.620 INVALID-ORDER-620 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}R_{2}R_{5}g_{m}s^{3}-C_{2}C_{5}L_{2}R_{2}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}L_{2}R_{2}g_{m}s^{2}+C_{2}L_{2}s^{2}+C_{5}L_{2}R_{5}g_{m}s^{2}-C_{5}L_{2}s^{2}+C_{5}L_{5}R_{5}s^{3}+C_{5}L_{5}R_{5}s^{3}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_5L_2R_2g_ms^2 + C_5L_2R_2g_ms^2 - C_5L_2s^2 - C_5L_2R_2g_ms^2 + C_2C_5L_2R_2g_ms^2 +
10.621 INVALID-ORDER-621 Z(s) = \left(\infty, \ \frac{L_{2s}}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}L_{5}R_{2}g_{m}s^{4}+C_{2}C_{5}L_{2}L_{5}s^{4}-C_{2}C_{5}L_{2}R_{2}s^{3}+C_{2}L_{2}R_{2}g_{m}s^{2}+C_{2}L_{2}s^{2}+C_{5}L_{2}L_{5}g_{m}s^{3}-C_{5}L_{2}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}R_{5}s^{2}+C_{5}L_{5}
                                                       \frac{(C_4L_4s^3 + C_4R_4s + 1)(C_2C_5L_2L_5s^2 - C_2C_5L_2R_2s^3 + C_2L_2R_2s^3 + C_2L_2R_2s^3 + C_2L_2s^3 + C_2L_2
```

$$H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_5L_2L_5g_ms^3 - C_5L_2R_2g_ms^4 + C_5L_2R_2g_ms^4 + C_5R_2g_ms^4 + C_5R_2g_ms^2 + C_5R_2g_ms^4 + C_5R_2g_ms^2 + C_5R_2g_ms^2 + C_5R_2g_ms^2 +$$

10.622 INVALID-ORDER-622
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$$

$$H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{2}L_{5}R_{4}s^{5} + C_{2}C_{4}L_{2}L_{5}s^{4} + C_{2}C_{4}$$

10.623 INVALID-ORDER-623
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2L_2R_2s^3 + C_2L_$$

10.624 INVALID-ORDER-624
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$$

$$H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5} + 2C_{2}C_{4}L_{2}L_{4}L_{5}S^{5} + 2C_{2}C_{4}L_{2}L_{4}R_{5}s^{5} + 2C_{2}C_{4}L_{2}L_{5}R_{5}s^{5} + 2C_{2}C_{4}L_{2}L_{5}R_{5}s^{5} + 2C_{2}C_{4}L_{2}L_{5}R_{5}s^{5} + 2C_{2}C_{4}L_{2}L_{5}R_{5}s^{5} + 2C_{2}C_{4}L_{5}L_{5}R_{5}s^{5} + 2C_$$

10.625 INVALID-ORDER-625
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$$

$$H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{2}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{5}s^{4} + C_{2}C_{4}L_{2}L_{5}$$

- 10.626 INVALID-ORDER-626 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5}$
- 10.627 INVALID-ORDER-627 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ R_5, \ \infty\right)$
- $H(s) = \frac{L_4 R_4 s \left(C_2 L_2 R_2 g_3 e^2 C_2 L_2 R_2 s^2 + C_2 L_2 R_5 e^2 + L_2 R_5 g_m s L_2 s + R_2 R_2 g_m s L_2 s + R_2 R_2 g_m s^2 C_2 L_2 R_2 g_3 e^2 C_2 L_2 R_2 g_4 e^2 + C_2 L_2$
- 10.628 INVALID-ORDER-628 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{1}{C_5s}, \ \infty\right)$
- $H(s) = \frac{L_4R_4s\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 C_5L_2s^2 C_5R_2s + L_2g_ms^2 + C_2L_2s^2 C_5R_2s + L_2g_ms^2 + C_2L_2R_2g_ms^2 + C$
- 10.629 INVALID-ORDER-629 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}R_{5}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_$
- 10.630 INVALID-ORDER-630 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}s^{4} +$
- 10.631 INVALID-ORDER-631 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}g^{s} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}S^{5} + C_{2}C_{5}L_{2}L_{4}R_{2}S^{4} + C_{2$
- 10.632 INVALID-ORDER-632 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{4}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{5}L_{4}L_{5}R_{2}s^$
- **10.633** INVALID-ORDER-633 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{5}L_{4}L_{5}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}S^{5} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}S^{5} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}g_{m}s^{5} +$
- 10.634 INVALID-ORDER-634 $Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}S^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}S^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{5}L_{4}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}R_{5}R_{5}s^$

```
10.635 INVALID-ORDER-635 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}$

10.636 INVALID-ORDER-636
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}L_{5}R_{$

10.637 INVALID-ORDER-637
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ R_5, \ \infty\right)$$

 $H(s) = \frac{\left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right) \left(C_2 L_2 R_2 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + L_2 R_5 g_m s - L_2 s + R_4 R_4 R_5 g_m s^2 - C_2 R_2 R_5 g_m s^2 + C_2$

10.638 INVALID-ORDER-638
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 - C_5L_2R_2R_2g_ms^2 + C_2L_2R_2g_ms^2 + C_2L_2R_$

10.639 INVALID-ORDER-639
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + 2C_{2}C_{4}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{5}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{4}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{4} + C_{2}C_{5}L_{5$

10.640 INVALID-ORDER-640
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{(C_4L_4R_4s^5 + L_4s^5)}{2\left(C_2C_4C_5L_2L_4R_2R_4g_ms^5 + C_2C_4C_5L_2L_4R_2s^5 + 2C_2C_4C_5L_2L_4R_2s^5 + 2C_2C_4C_5L_2L_4R_2s^5 + C_2C_4L_2L_4R_2s^5 + C_2C_4L_2L_4R$

10.641 INVALID-ORDER-641
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s^2\right)}{2\left(C_2C_4C_5L_2L_4L_5R_2g_ms^6 + C_2C_4C_5L_2L_4R_2g_ms^5 + C_2C_4C_5L_2L_4R_2s^5 + 2C_2C_4C_5L_2L_4R_2s^5 + 2C_2C_4L_2L_4R_2g_ms^4 + C_2C_5L_2L_4s^4 + C_$

10.642 INVALID-ORDER-642
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$$

10.643 INVALID-ORDER-643
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}L_{2}L_{4}R_$

```
10.644 INVALID-ORDER-644 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)
```

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{6} + 2C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{5}s^{6} + 2C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}S^{5} + 2C_{2}$

10.645 INVALID-ORDER-645
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}L_{4$

10.646 INVALID-ORDER-646
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{5}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{5}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{5}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{4}L_{$

10.647 INVALID-ORDER-647
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ R_5, \ \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_2 s^2 + C_2 L_2 R_2 R_3 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_2 R_3 g_m s^2 - C_2 L_2 R_2 R_3 g_m s^2 + C_2 L_2 R_3 g_m s^2 + C_2$

10.648 INVALID-ORDER-648
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(-C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 R_2 s^3 + C_2 L_2 R_2 s^3 + C_2 L_2 R_2 s^3 + C_2 L_2 R_2 s^3 +$

10.649 INVALID-ORDER-649
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}L_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}R_{5}s^{4} +$

10.650 INVALID-ORDER-650
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{$

10.651 INVALID-ORDER-651
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{6} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{4}R_{2}s^{5} + 2C_{2}$

10.652 INVALID-ORDER-652
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{4}L_{4}R_{2}s^{4$

```
10.653 INVALID-ORDER-653 Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{$

10.654 INVALID-ORDER-654
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{4}L_{4}L_{5}R_{2}S^{5}$

10.655 INVALID-ORDER-655
$$Z(s) = \left(\infty, \ \frac{L_{2s}}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{5}R_{5}s^{6} + C_{2}C_{4}L_{5}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{$

10.656 INVALID-ORDER-656
$$Z(s) = \left(\infty, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}g_{m}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}g_{m}s^{5$

10.657 INVALID-ORDER-657
$$Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_2 R_2 s - C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_2 C_5 L_2 R_2 g_m s^3 + C_2 C_5 L_2 R_2 s^3 + 2 C_2 C_5 L_2 R_4 s^3 + 2 C_2 C_5 R_2 R_4 s^2 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_2 R_2 s + C_5 R_2 R_4 g_m s + C_5 R_2 s + 2 C_5 R_4 s + R_2 g_m + 1\right)}$$

10.658 INVALID-ORDER-658
$$Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ R_4, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$$

$$R_4 \left(-C_2 C_5 L_2 R_2 R_5 s^3 + C_2 L_2 R_2 R_5 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + C_2 R_2 R_5 s - C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)$$

10.659 INVALID-ORDER-659
$$Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_2 C_5 L_2 R_2 F_3 g_m s^3 - C_2 C_5 L_2 R_2 s^3 + C_2 C_5 L_2 R_5 s^3 + C_2 C_5 R_2 R_5 s^2 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_2 R_2 s + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_2 s + C_5 R_2 s + C_5 R_2 R_5 g_m s - C_5 R_2 s + C_5 R_2 R_5 g_m s - C_5 R_2 R_5 g_m$$

10.660 INVALID-ORDER-660
$$Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, L_5s+\frac{1}{C_5s}, \infty\right)$$

10.661 INVALID-ORDER-661
$$Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_2 C_5 L_2 L_5 R_2 s^4 + C_2 L_2 L_5 R_2 g_m s^3 + C_2 L_2 L_5 s^3 - C_2 L_2 R_2 s^2 + L_5 R_2 g_m s + L_5 s - R_2\right)}{2 \left(C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 R_2 s^4 + 2 C_2 C_5 L_2 L_5 R_2 s^4 + 2 C_2 C_5 L_2 L_5 R_2 s^3 + C_2 L_2 L_5 R_2 s^3 + C_2 L_2 R_2 g_m s^3 + C_2 L_2 R_2 g^2 + 2 C_2 L_2 R_4 s^2 + C_2 L_5 R_2 s^2 + 2 C_2 L_5 R_2 s^2 + 2 C_5 L_5 R_2$$

```
10.662 INVALID-ORDER-662 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
H(s) = \frac{R_4 \left( C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^3 - C_2 C_5 L_2 R_2 s^3 + C_2 C_5 L_2 R_
10.663 INVALID-ORDER-663 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
H(s) = \frac{R_4 \left( -C_2 C_5 L_2 L_5 R_2 R_5 s^4 + C_2 L_2 L_5 R_2 S_3 + C_2 L_2 L_5 R_2 s^3 + C_2 L_2 L_5 R_2 s^3 + C_2 L_2 R_2 S_2 + C_2 L_5 R_2 S_2 + C_2 L_5 R_2 S_2 + C_2 L_5 R_2 S_3 + C_2 L_2 L_5
10.664 INVALID-ORDER-664 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
H(s) = \frac{R_4 \left( C_2 C_5 L_2 L_5 R_2 g_m s^4 - C_2 C_5 L_2 L_5 R_2 s^4 + C_2 C_5 L_2 L_5 R_2 s^4 + C_2 C_5 L_2 L_5 R_2 s^3 + C_2 L_2 L_5 s^3 + C_2 L_2 L_5 s^3 + C_2 L_2 R_2 g_m s^3 + C_2 L_2 R_2 s^2 + C_2 L_2 
10.665 INVALID-ORDER-665 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
H(s) = \frac{R_4 \left( C_2 C_5 L_2 L_5 R_2 g_m s^4 - C_2 C_5 L_2 L_5 R_2 s^4 + C_2 C_5 L_2 L_5 R_2 s^4 + C_2 C_5 L_2 R_2 R_5 s^3 + C_2 L_5 R_2 s^3 + C_2 L_2 R_2 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_2 R_2 g_m s^4 + C_2 C_5 L_2 L_5 R_2 g_m s^4 + C_2 C_5 L_2 L_5 R_2 s^4 + C_2 C_5 L_2 L_5 R_2 s^4 + C_2 C_5 L_2 R_2 R_4 g_m s^4 + C_2 C_5 L_2 R_4 R_5 g_m s^4 + C_2 C_5 L_2 R_5 g_m s^
10.666 INVALID-ORDER-666 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{1}{C_4s}, R_5, \infty\right)
                                                                                                                                                                                                                                                          H(s) = \frac{C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s + R_2R_5g_m - R_2 + R_5}{2\left(C_2C_4L_2R_2s^3 + C_2C_4L_2R_2s^3 + C_2C_4L_2R_5s^3 + C_2C_4R_2R_5s^2 + C_2L_2R_2g_ms^2 + 2C_2L_2s^2 + 2C_2R_2s + C_4R_2R_5g_ms + C_4R_2s + C_4R_5s + R_2g_m + 2\right)}
10.667 INVALID-ORDER-667 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)
                                                                                                                                                                                                                                                H(s) = \frac{-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g_m + 1}{2s\left(C_2C_4C_5L_2R_2s^3 + C_2C_4L_2s^2 + C_2C_4L_2s^2 + C_2C_5L_2R_2g_ms^2 + 2C_2C_5L_2s^2 + 2C_2C_5R_2s + C_4C_5R_2s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}
10.668 INVALID-ORDER-668 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
H(s) = \frac{-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2L_2R_5s^2 + C_2L_2R_5s^2 + C_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2s^2 + C_2R_2
10.669 INVALID-ORDER-669 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
         H(s) = \frac{C_2C_5L_2R_2S_gms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_5s^3 + C_2C_5R_2S_s^2 + C_2L_2R_2gms^2 + C_2L_2s^2 + C_2R_2s + C_5R_2S_gms - C_5R_2s + C_5R_5s + R_2gm + 1}{2s\left(C_2C_4C_5L_2R_2S_gms^3 + C_2C_4C_5L_2R_2s^3 + C_2C_4C_5R_2S_s^2 + C_2C_4L_2S^2 + C_2C_4L_2s^2 + C_2C_5L_2S^2 + 2C_2C_5L_2s^2 + 2C_2C_5R_2s + C_4C_5R_2s + C_
10.670 INVALID-ORDER-670 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{1}{C_4s}, \ L_5s+\frac{1}{C_5s}, \ \infty\right)
                                               \frac{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2C_5L_5R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1}{2s\left(C_2C_4C_5L_2L_5s^4 + C_2C_4C_5L_2R_2s^3 + C_2C_4L_2R_2g_ms^2 + C_2C_4L_2s^2 + C_2C_4R_2s + C_2C_5L_2R_2g_ms^2 + 2C_2C_5R_2s + C_4C_5L_5s^2 + C_4C_5L_2s^2 + C_4C_5R_2s + C_4C_5R_2
```

```
10.671 INVALID-ORDER-671 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = \frac{-C_2C_5L_2L_5R_2s^4 + C_2L_2L_5s^3 - C_2L_2R_2s^2 + C_2L_5R_2s^2 - C_5L_5R_2s^2 + L_5R_2g_ms + L_5s - R_2}{2\left(C_2C_4C_5L_2L_5R_2s^5 + C_2C_4L_2L_5s^4 + C_2C_4L_2R_2s^3 + C_2C_5L_2L_5R_2g_ms^4 + 2C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + 2C_2L_2s^2 + 2C_2R_2s + C_4C_5L_5R_2s^3 + C_4L_5R_2g_ms^2 + C_4L_5s^2 + C_4L
10.672 INVALID-ORDER-672 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{1}{C_4s}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)
H(s) = \frac{C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s
10.673 INVALID-ORDER-673 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)
H(s) = \frac{-C_2C_5L_2L_5R_2R_5s^4 + C_2L_2L_5R_2s^3 + C_2L_2L_5R_2s^3 + C_2L_2L_5R_2s^3 + C_2L_2L_5R_2s^3 + C_2L_2L_5R_2s^3 + C_2L_2R_2s^3 + 
10.674 INVALID-ORDER-674 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)
                                                   \frac{C_2C_5L_2L_5R_2g_ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^3 + C_2L_2L_5s^3 + C_2L_2L_5s^3 + C_2L_2R_2s^2 +
10.675 INVALID-ORDER-675 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_2C_5L_2L_5R_2R_5g_ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_5s^4 - C_2C_5L_2R_2R_5s^3 + C_2C_5L_5R_2R_5s^3 + C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2C_5L_2R_2R_5s^3 + C_2C_5L_2R_5s^3 + C_2C_5L_2R_5s
H(s) = \frac{C_2C_5L_2L_5R_2S_gms^4 - C_2C_5L_2L_5R_2S^4 + C_2C_5L_2L_5R_2S^4 + C_2C_5L_2L_5R_2S^4 + C_2C_5L_2L_5R_2S^5 + C_2L_2R_2S_gms^2 - C_2L_2R_2S^2}{2\left(C_2C_4C_5L_2L_5R_2S_gms^5 + C_2C_4C_5L_2L_5R_2S^5 + C_2C_4C_5L_2L_5R_2S^5 + C_2C_4C_5L_2R_2S^5 + C_2C_4L_2R_2S^3 + C_2C_5L_2L_5R_2S^4 + C_2C_5L_2L_5R_2S^3 + C_2C_4L_2R_2S^3 + C_2C_
10.676 INVALID-ORDER-676 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, R_5, \infty\right)
H(s) = \frac{R_4 \left( C_2 L_2 R_2 S_2 g_m s^2 - C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5 \right)}{2 \left( C_2 C_4 L_2 R_2 R_4 s^3 + C_2 C_4 L_2 R_4 s^3 + C_2 C_4 L_2 R_4 R_5 s^3 + C_2 C_4 R_2 R_4 R_5 s^2 + C_2 L_2 R_2 S_2 s^2 + C_2 L_2 R_2 s
10.677 INVALID-ORDER-677 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)
H(s) = \frac{R_4 \left( -C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_2 R_2 s - C_5 R_2 s + R_2 g_m + 1 \right)}{2 \left( C_2 C_4 C_5 L_2 R_2 R_4 s^4 + C_2 C_4 L_2 R_2 R_4 g_m s^3 + C_2 C_4 L_2 R_4 g_m s^3 + C_2 C_5 L_2 R_2 g_m s^3 + C_2 C_5 L_2 R_2 s^3 + 2 C_2 C_5 L_2 R_4 s^3 + 2 C_2 C_5 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_2 R_2 s + C_4 C_5 R_2 R_4 s^2 + C_4 R_2 R_4 g_m s + C_5 R_2 R_
```

10.678 INVALID-ORDER-678 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2 + 1 \right)}{C_2L_2s^2 + C_2R_2s + 1}, \ \infty, \ \frac{R_4}{C_4R_4s + 1}, \ \frac{R_5}{C_5R_5s + 1}, \ \infty \right)$ $R_4\left(-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2S_gms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s - C_5R_2R_5s + R_2R_5s \right)$

10.679 INVALID-ORDER-679 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{R_4 \left(C_2 C_5 L_2 R_2 S_3 - C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_2 R_2 s + C_2 R_2 R_2 s^3 + C_2 C_5 L_2 R_2 R_4 R_5 s^4 + C_2 C_4 C_5 L_2 R_2 R_4 R_5 s^3 + C_2 C_4 L_2 R_4 R_5 s^3 + C_2 C_4 L_2 R_4 R_5 s^3 + C_2 C_5 L_2 R_2 R_4 g_m s^3 + C_2 C_5 L_2 R_4 g_m s^3 + C_2 C_$

```
10.680 INVALID-ORDER-680 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)
10.681 INVALID-ORDER-681 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = \frac{R_4 \left( -C_2 C_5 L_2 L_5 R_2 s^4 + C_2 L_2 L_5 R_2 g_m s^3 + C_2 L_2 L_5 s^3 - C_2 L_2 R_2 s^2 + C_2 L_5 R_2 s^2 + C_5 L_5 R_2 s^2 + L_5 R_2 R_2 r_3 + C_2 R_2 R_2 r
10.682 INVALID-ORDER-682 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{R_4 \left( C_2 C_5 L_2 L_5 R_2 g_m s^5 + C_2 C_5 L_2 L_5 S^
10.683 INVALID-ORDER-683 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
H(s) = \frac{K_4 \left( -C_2 C_5 L_4 C_5 L_2 C_5 L_2
10.684 INVALID-ORDER-684 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
                                \frac{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5}+C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}s^{5}+C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{2}R_{4}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{4}R_{5}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{4}R_{5}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{4}R_{5}S^{5}+C_{2}C_{4}L_{5}L_{5}R_{4}R_{5}S^{5}+C_{
10.685 INVALID-ORDER-685 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4}{C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}R_{4}R_{5}s^{4} + C_
10.686 INVALID-ORDER-686 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4 + \frac{1}{C_4s}, R_5, \infty\right)
                                 H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_2C_4L_2R_2R_5g_ms^3 + C_2C_4L_2R_2s^3 + 2C_2C_4L_2R_4s^3 + C_2C_4L_2R_5s^3 + 2C_2C_4R_2R_5s^2 + C_2L_2R_2g_ms^2 + 2C_2L_2s^2 + 2C_2R_2s + C_4R_2R_5g_ms + C_4R_2s + 2C_4R_4s + C_4R_5s + R_2g_m + 2\right)}
10.687 INVALID-ORDER-687 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right)
 H(s) = \frac{\left(C_4R_4s + 1\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2S^2 + C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_2R_2s^3 + C_2C_4C_5L_2R_2s^3 + 2C_2C_4C_5L_2R_4s^3 + 2C_2C_4C_5R_2R_4s^2 + C_2C_4L_2s^2 + C_2C_4L_2s^2 + 2C_2C_5L_2s^2 + 2C_2C_5R_2s + C_4C_5R_2s + 2C_4C_5R_4s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5\right)}
10.688 INVALID-ORDER-688 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
```

 $H(s) = \frac{(C_4R_4s + 1)\left(-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2R_5s^3 + C_2L_2R_2s^3 +$

 $(C_4R_4s+1)(-C_2C_5L_2R_2R_5s^3+C_2L_2R_2R_5g_ms^2-C_2L_2R_2s^2+C_2L_2R_5s^2+C_2R_5s^2+C_2R_5$

```
10.689 INVALID-ORDER-689 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
 H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2R_2S_gms^3 - C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2L_2S_2 + C_2R_2s + C_5R_2S_gms - C_5R_2s + C_5R_2
 10.690 INVALID-ORDER-690 Z(s) = \left(\infty, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)
 H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_2L_5R_2g_ms^4 + C_2C_4C_5L_2R_2s^3 + C_2C_4
 10.691 INVALID-ORDER-691 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \left(C_{4}R_{4}s+1\right)\left(-C_{2}C_{5}L_{2}L_{5}R_{2}s^{4}+C_{2}L_{2}L_{5}R_{2}g_{m}s^{3}+C_{2}L_{2}L_{5}s^{3}-C_{2}L_{2}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5
 H(s) = \frac{(C_4R_4s + 1)\left(-C_2C_5L_2L_5R_2s^3 + C_2L_2L_5R_2s^3 + C_2L_2L_5R_2s^3 + C_2L_2L_5s^3 - C_2L_2R_2s^3 + C_2L_2R_2s^3 + C_2L_2L_5R_2s^3 + C_2L_2L_5
 10.692 INVALID-ORDER-692 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ R_4 + \frac{1}{C_4s}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)
H(s) = \frac{(C_4R_4s+1)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2R_2s^3 + 
 10.693 INVALID-ORDER-693 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)
                                                              -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5}+C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{4}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}R_{4}g_{m}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+2C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+2C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{2}s^{4
 10.694 INVALID-ORDER-694 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)
 H(s) = \frac{(C_4R_4s+1)\left(C_2C_5L_2L_5R_2g_ms^4 - C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_5L_2L_5R_2s^4 + C_2C_4C_5L_2L_5R_2s^5 + C_2C_4C_5L_2L_5R_2s^5
 10.695 INVALID-ORDER-695 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, R_4 + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
 H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{2}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{5}R_{5}s^{4} + C
 10.696 INVALID-ORDER-696 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + \frac{1}{C_4s}, R_5, \infty\right)
                                                 H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2L_2R_2R_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_2C_4L_2L_4R_2g_ms^4 + 2C_2C_4L_2R_2s^3 + C_2C_4L_2R_2s^3 + C_2C_4L_2R_2s^2 + C_2C_4L_2
 10.697 INVALID-ORDER-697 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right)
 H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_2L_4s^4 + C_2C_4C_5L_2R_2s^3 + 2C_2C_4C_5L_4R_2s^3 + C_2C_4L_2s^2 + C_2C_4L_2s^2 + C_2C_4L_2s^2 + 2C_2C_5L_2s^2 + 2C_2C_5R_2s + C_4C_5L_4s^2 + C_4C_5R_2s + C_4R_2g_m + C_4 + C_5R_2g_m + 2C_5C_5R_2s + C_4C_5L_4R_2g_m + C_4C_5R_2s + C_4C_5R_2s
```

```
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(-C_2C_5L_2R_2R_5s^3 + C_2L_2R_2s_5g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2R_5s^2 + C_2R_2R_
10.699 INVALID-ORDER-699 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2R_2s_3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2C_5L_2R_2s^3 + C_2L_2s^2 + C_2R_2s + C_5R_2R_5g_ms - C_5R_2s + C_5R_2
10.700 INVALID-ORDER-700 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s+\frac{1}{C_4s}, \ L_5s+\frac{1}{C_5s}, \ \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5R_2g_ms^4 + C_2C_5L_2L_5s^4 - C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s + C_5L_5R_2g_ms^2 + C_5L_5s^2 - C_5R_2s + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_2L_4R_2g_ms^4 + 2C_2C_4C_5L_2L_5s^4 + C_2C_4C_5L_2L_5s^4 + C_2C_4C_5L_2R_2s^3 + 2C_2C_4C_5L_2R_2s^3 + C_2C_4L_2s^2 + C_2C_
10.701 INVALID-ORDER-701 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \left(C_{4}L_{4}s^{2}+1\right)\left(-C_{2}C_{5}L_{2}L_{5}R_{2}s^{4}+C_{2}L_{2}L_{5}R_{2}g_{m}s^{3}+C_{2}L_{2}L_{5}s^{3}-C_{2}L_{2}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}L_{5}R_{2}s^{2}+C_{2}
H(s) = \frac{(C_4L_4s^2 + 1)\left(-C_2C_5L_2L_5R_2g^3 + C_2L_2L_5g^3 - C_2L_2R_2s^3 + C_2L_2L_5s^3 - C_2L_2R_2s^2 + C_2L_5R_2s^2 - C_2L_2R_2s^2 + C_2L_5R_2g^3 + C_2L_2L_5g^3 - C_2L_2R_2s^3 + C
10.702 INVALID-ORDER-702 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + \frac{1}{C_4s}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)
                                                    \frac{\left(C_{4}L_{4}s^{2}+1\right)\left(C_{2}C_{5}L_{2}L_{5}g_{m}s^{4}+C_{2}C_{5}L_{2}R_{5}g_{m}s^{3}-C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_
10.703 INVALID-ORDER-703 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)
                                                              -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}g_{m}s^{6}+2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6}+C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}g_{m}s^{5}+2C_{2}C_{4}L_{2}L_{4}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}g_{m}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{5}+C_{2}C_{4}L_{2}L_{4}L_{5}R_{5}s^{5}+C_{2}C_{4}L_{2}L_{4}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{2}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5}R_{5}s^{4}+C_{2}C_{4}L_{5}L_{5
10.704 INVALID-ORDER-704 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_2C_5L_2L_5R_2g_ms^3 - C_2C_5L_2L_5R_2s^3 + C_2C_5L_2L_5R_2s^3 + C_2C_5L_2L_5R_2s^3 + C_2C_5L_2L_5R_2s^3 + C_2C_4C_5L_2L_5R_2s^3 + C_2C_4C_5L_2L_5R_2s^3 + C_2C_4C_5L_4L_5R_2s^3 + C_2C_4L_5L_5R_2s^3 + C_2C_4L_5
10.705 INVALID-ORDER-705 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)
H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} 
10.706 INVALID-ORDER-706 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1}, R_5, \infty\right)
H(s) = \frac{L_4s\left(C_2L_2R_2S_2g_ms^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2S_5s + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_2C_4L_2L_4R_2S_5g_ms^4 + C_2C_4L_2L_4R_2s^4 + C_2C_4L_4R_2S^3 + C_2L_2L_4S_3s^2 + C_2L_2R_2S_2s^2 + C_2L_2R_2s^2 + C_2L_
```

10.698 INVALID-ORDER-698 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

10.710 INVALID-ORDER-710 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ L_5s+\frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{2}L_{5}R_{2}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{5}s^{4} - C_{2}C_{5}L_{2}R_{2}s^{3} + C_{2}L_{2}R_{2}g_{m}s^{2} + C_{2}L_{2}s^{2} + C_{2}R_{2}s + C_{2}R_{2}s + C_{2}R_{2}s + C_{2}R_{2}s + C_{2}R_{2}s + C_{2}R_{2}s + C_{2}R_{2}S_{2}s + C_{2}R_{2}S_{2}s$

10.711 INVALID-ORDER-711 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$

 $H(s) = \frac{L_{4}s\left(-C_{2}C_{5}L_{2}L_{5}R_{2}s^{4} + C_{2}L_{2}L_{5}R_{2}g_{m}s^{3} + C_{2}L_{2}L_{5}s^{3} - C_{2}L_{2}R_{2}s^{2} + C_{2}L_{5}R_{2}s^{2} + C_{5}L_{5}R_{2}s^{2} + L_{5}R_{2}s^{2} + C_{5}L_{5}R_{2}s^{2} + C_{5}L_{5}R_{5}s^{2} + C_{5}L_{5}L_{5}R_{5}s^{2} + C_{5}L_{5}R_{5}s^{2} + C_{5}L_{5}R_{5}s^{2} + C_{5}L_{5}L_{5}R_{5}s^{2} + C_{5}L_{5}R_{5}s^{2} +$

10.712 INVALID-ORDER-712 $Z(s) = \left(\infty, \ \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)$

 $H(s) = \frac{L_{4}s\left(C_{2}C_{5}L_{2}L_{5}R_{2}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{5}s^{4} + C_{2}C_{5}L_{2}L_{5}s^{4} + C_{2}C_{5}L_{2}L_{5}s^{4} + C_{2}C_{5}L_{2}L_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}$

10.713 INVALID-ORDER-713 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$

 $H(s) = \frac{L_{4}s\left(-C_{2}C_{3}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{5}L_{4}L_{5}R_{2}S^{5} + C_{2}C_{5}L_{4}L_{5}R_{5}S^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}S^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}S^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}L_{5}R_{5}S^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}L_{5}R_{5}S^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}S^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}$

10.714 INVALID-ORDER-714 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}S^{5} + C_{2}C_{4}L_{4}L_{5}S^{5} + C_{2}C_{4}L$

10.715 INVALID-ORDER-715 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$

```
10.716 INVALID-ORDER-716 Z(s) = \left(\infty, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, R_5, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_2L_2R_2S_{gm}s^2 - C_2L_2R_2s^2 + C_2L_2R_5s^2 + C_2R_2S_{s} + R_2R_5g_m - R_2 + R_5\right)}{2\left(C_2C_4L_2L_4S_{gm}s^4 + 2C_2C_4L_2R_2S_{gm}s^3 + C_2C_4L_2R_2S_{gm}s^3 + C_2C_4L_2R_2S^3 + 2C_2C_4L_2R_2S^3 + 2C_2C_4R_2R_2S^2 + C_2L_2R_2S^2 + 2C_2L_2S^2 
10.717 INVALID-ORDER-717 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2s^2 + C_2R_2s - C_5R_2s + R_2g_m + 1\right)}{2s\left(C_2C_4C_5L_2L_4s^4 + C_2C_4C_5L_2R_2s^3 + 2C_2C_4C_5L_2R_2s^3 + 2C_2C_5L_2R_2s^3 + 2C_2C_5L_2R_
10.718 INVALID-ORDER-718 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)
H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}g_{m}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}R_{2}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + 2C_{2}C_{4}L_{2}L_{4}R_{5}s^{4} + 2C_{2}C_{4}L_{5}L_{4}R_{5}s^{4} + 2C_{2}C_{4}L_{5}L_{5}R_{5}s^{4} + 2C_{2}C_{
10.719 INVALID-ORDER-719 Z(s) = \left(\infty, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
                                       \left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}R_{2}sg_{m}s^{3}-C_{2}C_{5}L_{2}R_{2}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}R_{2}R_{5}s^{2}+C_{2}L_{2}R_{2}g_{m}s^{2}+C_{2}L_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C_{2}R_{2}s^{2}+C
10.720 INVALID-ORDER-720 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)
                                        10.721 INVALID-ORDER-721 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}g_{m}s^{4} + 2C_{2}C_{4}L_{2}L_{4}s^{4} + C_{2}C_{4}L_{2}L_{5}R_{2}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{5}s^{4} + C_{2}C_{4}L_{5}L_{5}s^{4} 
10.722 INVALID-ORDER-722 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
                                        \frac{\left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{2}C_{5}L_{2}L_{5}R_{2}g_{m}s^{4}+C_{2}C_{5}L_{2}L_{5}s^{4}+C_{2}C_{5}L_{2}R_{5}g_{m}s^{3}-C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_{5}s^{3}+C_{2}C_{4}C_{5}L_{2}R_
10.723 INVALID-ORDER-723 Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}g_{m}s^{6}+2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6}+C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5}+C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5}L_{5}R_{5}s^{5}+2C_{2}C_{4}C_{5
10.724 INVALID-ORDER-724 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{5}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{5}L_{5}R_$

- 10.725 INVALID-ORDER-725 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}g_{m}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{5}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} +$
- 10.726 INVALID-ORDER-726 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ R_5, \ \infty\right)$
- $H(s) = \frac{L_4 R_4 s \left(C_2 L_2 R_2 R_5 g_m s^2 C_2 L_2 R_2 s^2 + C_2 L_2 R_5 s^2 + C_2 R_2 R_5 s + R_2 R_5 g_m R_2 + R_5\right)}{2 \left(C_2 C_4 L_2 L_4 R_2 R_4 R_5 g_m s^4 + C_2 C_4 L_2 L_4 R_2 R_4 g_s^3 + C_2 L_2 L_4 R_2 S^3 + C_2 L_2 R_2 R_4 s^2 + C_2 L_2 R_2 R_4 s^2 + C_2 L_2 R_4 R_5 s^2 + C_2 L_4 R_2 R_4 s^3 + C_2 L_4 R_4 R_5 s^$
- 10.727 INVALID-ORDER-727 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{L_4 R_4 s \left(-C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^2 + C_2 R_2 s C_5 R_2 s + R_2 g_m + 1\right)}{2 \left(C_2 C_4 C_5 L_2 L_4 R_2 R_4 s^5 + C_2 C_4 L_2 L_4 R_2 R_4 s^4 + C_2 C_5 L_2 L_4 R_2 s^4 + C_2 C_5 L_4 R_2 s^4 + C_2 C$
- 10.728 INVALID-ORDER-728 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{4}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{4}$
- 10.729 INVALID-ORDER-729 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{4} + C_{2}C_{5}L_{2}L_{4}R_{2}g_{m}s^{4} + C_{2}C_{5}L_{4}R_{2}g_{m}s^{4} + C_{2}C_{5}L_{4$
- 10.730 INVALID-ORDER-730 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{5}L_{4}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}L$
- 10.731 INVALID-ORDER-731 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}g^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}g^{5} + C_{2}C_{5}L_{4}L_{5}R_{2}g^{5} + C_{2}C_$
- 10.732 INVALID-ORDER-732 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{5}L_{4}R_{5}s^{5} + C_{2}C_{4}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}L_{5$
- 10.733 INVALID-ORDER-733 $Z(s) = \left(\infty, \ \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{4} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{2}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{5}L_{5}L_{5}R_{5}$

- 10.734 INVALID-ORDER-734 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}s^{6} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}L_{4}L_{5}R_{4}R_{5}s^{6} +$
- 10.735 INVALID-ORDER-735 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{4}R$
- 10.736 INVALID-ORDER-736 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ R_5, \ \infty\right)$
- 10.737 INVALID-ORDER-737 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{\left(C_4L_4R_4s^2 + L_4s + R_4\right)\left(-C_2C_5L_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s^3 + C_2L_2R_2g_ms^2 + C_2L_2s^2 + C_2R_2s^3 + C_2L_2R_2g_ms^3 + C_2L_$
- 10.738 INVALID-ORDER-738 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{4}R_$
- 10.739 INVALID-ORDER-739 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$
- 10.740 INVALID-ORDER-740 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{(C_4 L_4 R_4 s^2 + L_4 s + R_2 s^2 + L_4 s + L_$
- 10.741 INVALID-ORDER-741 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{4}R_{4}s^{4} + 2C_{2}C_{4}L_{$
- 10.742 INVALID-ORDER-742 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}R_{5}s^{5} +$

- 10.743 INVALID-ORDER-743 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$
- $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{6} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}S^{5} + 2C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}S^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}S^{5} + 2C_{2}C_{4}L_{4}L_{5}R_$
- 10.744 INVALID-ORDER-744 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$
- 10.745 INVALID-ORDER-745 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{4}L_{5}R_{5}s^{5}$
- 10.746 INVALID-ORDER-746 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$
- 10.747 INVALID-ORDER-747 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(-C_2 C_5 L_2 R_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 s^3 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 R_2 g_m s^2 + C_2 L_2 R_2 g_m s^3 + C_2 C_4 L_2 L_4 R_2 g_m s^3 + C_2 C_4 L_2 R_4 g_m s^3 + C_2 C_4 R_2 R_4 g_m s^3 + C_2 C_4 R$
- 10.748 INVALID-ORDER-748 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}R_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + 2C_{2}C_{4}C_{5}L_{4}R_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}$
- 10.749 INVALID-ORDER-749 $Z(s) = \left(\infty, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{4}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}S_{5}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{2}R_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{2}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{4} + C_{2}C_{4}C_{5}L_{4}R_{5$
- 10.750 INVALID-ORDER-750 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ L_5s+\frac{1}{C_5s}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{$
- 10.751 INVALID-ORDER-751 $Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$
- $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{4}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}s^{5} + 2C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}g_{m}s^{5} + C_{2}C_{4}L_{2}L_{4}R_{2}g_{m}s^{4} + C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{2}L_{4}R_{2}s^{4} + 2C_{2}C_{4}L_{2}L_{4}R_{2}s^{4}$

```
10.752 INVALID-ORDER-752 Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)
```

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}g_{m}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{4}R_{5}s^{5} + C_{2}C_$

10.753 INVALID-ORDER-753
$$Z(s) = \left(\infty, \ \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$$

 $H(s) = -\frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}R_{5}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{5}s^{6} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{2}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{5}L_{4}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{5}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{5}L_{5}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{5}L_{5}R_{2}s^{5} + 2C_{2}C_{4}L_{5}L_{5}L_{5}R_{2}$

10.754 INVALID-ORDER-754
$$Z(s) = \left(\infty, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{4}L_{5}R_{2}s^{6$

10.755 INVALID-ORDER-755
$$Z(s) = \left(\infty, \ \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

 $H(s) = \frac{1}{2\left(C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}R_{4}g_{m}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{2}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}L_{5}R_{5}s^{6} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{4}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{2}L_{5}R_{2}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + C_{2}C_{4}C_{5}L_{5}L_{5}R$

11 PolynomialError