

10.14 INVALID-ORDER-14 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

[illegible]

10.15 INVALID-ORDER-15 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

[illegible]

10.16 INVALID-ORDER-16 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

[illegible]

10.17 INVALID-ORDER-17 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.18 INVALID-ORDER-18 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

[illegible]

10.19 INVALID-ORDER-19 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_1 C_2 C_3 C_{g_1} L_1 L_1 L_1 R_{1g}^2 s^6 + C_1 C_2 C_3 L_1 L_1 L_1 R_{1g} R_{1g}^2 s^5 + C_1 C_2 C_3 L_1 L_1 L_1 R_{1g} R_{1g} s^4 + C_1 C_2 C_3 L_1 L_1 L_1 R_{1g} s^3 - C_1 C_2 C_3 C_{g_1} L_1 L_1 L_1 R_{1g} R_{1g}^2 s^5 + C_1 C_2 C_3 C_{g_1} L_1 L_1 L_1 R_{1g} R_{1g} s^4 + C_1 C_2 C_3 C_{g_1} L_1 L_1 L_1 R_{1g} s^3 - C_1 C_2 C_3 C_{g_1} L_1 L_1 L_1 R_{1g} s^2 + 2 C_1 C_2 C_3 L_1 L_1 L_1 R_{1g} s^4 + C_1 C_2 C_3 L_1 L_1 L_1 R_{1g} s^3 + 2 C_1 C_2 C_3 L_1 L_1 L_1 s^4 - C_1 C_2 C_3 L_1 L_1 L_1 R_{1g} s^4 + C_1 C_2 C_3 L_1 R_{1g} s^3 + C_1 C_2 C_3 L_1 R_{1g} s^2 - C_1 C_2 C_3 L_1 L_1 L_1 R_{1g} s^3 + C_1 C_2 C_3 L_1 L_1 R_{1g} s^4 + C_1 C_2 C_3 L_1 L_1 s^4 - C_1 C_2 C_3 L_1 L_1 R_{1g} s^4 - C_1 C_2 C_3 L_1 R_{1g} s^4 - C_1 C_2 C_3 L_1 R_{1g} s^3 - C_1 C_2 C_3 L_1 R_{1g} s^2 - C_1 C_2 C_3 L_1 R_{1g} s}{L_1^8 (C_{g1} s^2 - g_m)}$$

10.20 INVALID-ORDER-20 $Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.21 INVALID-ORDER-21 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_L (C_{gd}s - g_m) (g_m r_o + 1)}{C_1^2 C_2 R_L r_o s^3 - C_1 C_{gd} R_L g_m r_o s^2 + C_1 C_{gd} R_L s^2 + C_1 C_{gd} r_o s^2 - C_1 R_L g_m s - C_1 g_m r_o s + C_2^2 C_{gs} R_L r_o^2 s^3 + C_2^2 R_L g_m r_o^2 s^2 + C_2^2 R_L r_o s^2 - C_{gd} C_{gs} R_L g_m r_o^2 s^2 + C_{gd} C_{gs} R_L r_o s^2 + C_{gd} C_{gs} r_o^2 s^2 - C_{gd} R_L g_m r_o^2 s - C_{gd} R_L g_m r_o s + C_{gd} g_m r_o^2 s + 2 C_{gd} g_m r_o s + C_{gd} r_o s + 2 C_{gd} s - C_{gs} R_L g_m r_o s + C_{gs} g_m r_o s + C_{gs} r_o s + C_{gs} s - g_m^2 r_o - g_m}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(\frac{1}{C_{1s}}, \infty, \infty, \infty, \infty, \frac{1}{C_{Ls}} \right)$

$$H(s) = \frac{(C_{gd}S - g_m)(g_{mro} + 1)}{s \left(C_{L1}C_{gd}r_o s^2 - C_{L1}g_m r_o s + C_{gd}^2 r_o s^2 - C_{L1}C_{gd}g_m r_o s + C_{L1}C_{gd}S - C_{L1}g_m + C_{L1}C_{gd}C_{gs}r_o^2 s^2 + C_{L1}C_{gd}g_m r_o^2 s + 2C_{L1}C_{gd}g_m r_o s + C_{L1}C_{gd}r_o s + 2C_{L1}C_{gd}S + C_{L1}C_{gs}g_m r_o s + C_{L1}C_{gs}r_o s + C_{L1}C_{gs}S - C_{L1}g_m^2 r_o - C_{L1}g_m + C_{gd}^2 C_{gs}r_o^2 s^2 + C_{gd}^2 g_m r_o^2 s + C_{gd}^2 r_o s - C_{gd}C_{gs}g_m r_o^2 s + C_{gd}C_{gs}r_o s - C_{gd}g_m r_o - C_{gs}g_m r_o \right)}$$

10.23 INVALID-ORDER-23 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

[illegible]

10.24 INVALID-ORDER-24 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

[illegible]

10.25 INVALID-ORDER-25 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

[illegible]

10.26 INVALID-ORDER-26 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

[illegible]

10.27 INVALID-ORDER-27 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

10.28 INVALID-ORDER-28 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

[illegible]

10.29 INVALID-ORDER-29 $Z(s) = \left(\frac{1}{C_{1s}}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$\begin{aligned}
H(s) = & \frac{1}{C_1 C_1 C_2^2 L_1 L_1 R_1 r_o s^5 - C_1 C_1 C_2 C_{g\beta} L_1 L_1 R_1 g_m r_o s^4 + C_1 C_1 C_2 L_1 L_1 R_1 s^4 + C_1 C_1 C_2 L_1 R_1 r_o s^4 - C_1 C_1 L_1 L_1 R_1 g_m s^3 - C_1 C_1 L_1 L_1 g_m r_o s^3 + C_1 C_2^2 L_1 R_1 r_o s^3 - C_1 C_2 L_1 L_1 g_m r_o s^3 + C_1 C_2 C_{g\beta} L_1 L_1 R_1 r_o s^3 + C_1 C_2 C_{g\beta} L_1 L_1 R_1 r_o s^3 - C_1 C_{g\beta} L_1 L_1 R_1 g_m r_o s^2 + C_1 C_{g\beta} L_1 R_1 s^2 + C_1 C_2 C_{g\beta} L_1 R_1 r_o s^2 - C_1 L_1 g_m s^2 - C_1 L_1 g_m s^2 - C_1 g_m r_o s^2 - C_1 C_2^2 C_{g\beta} L_1 R_1 r_o s^2 + C_1 C_2^2 L_1 R_1 g_m r_o s^2 + C_1 C_2 L_1 R_1 g_m r_o s^2 + C_1 C_2 L_1 L_1 R_1 r_o s^4 - C_1 C_2 C_{g\beta} L_1 L_1 R_1 g_m r_o s^3 + C_1 C_2 C_{g\beta} L_1 L_1 R_1 r_o s^4 + C_1 C_2 C_{g\beta} L_1 R_1 r_o s^4 + C_1 C_2 C_{g\beta} L_1 R_1 r_o s^4 - C_1 C_{g\beta} L_1 L_1 R_1 g_m r_o s^3 - C_1 C_{g\beta} L_1 R_1 g_m r_o s^3 + C_1 C_{g\beta} L_1 R_1 g_m r_o s^3 + 2C_1 C_{g\beta} L_1 R_1 g_m r_o s^3 + 2C_1 C_{g\beta} L_1 R_1 g_m r_o s^3 + 2C_1 C_{g\beta} L_1 R_1 g_m r_o s^3 + 2C_1 C_{g\beta} L_1 R_1 g_m r_o s^3} \\
\end{aligned}$$

10.30 INVALID-ORDER-30 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.31 INVALID-ORDER-31 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, R_L \right)$

$$H(s) = \frac{R_1 R_L (C_{gS} s - g_m) (C_{gR} s + 1)}{C_1^2 C_{gS} R_1 R_L r_{oS} s^3 - C_1 C_{gS} R_1 R_L g_m r_{oS} s^2 + C_1 C_{gS} R_1 R_L s^2 + C_1 C_{gS} R_1 r_{oS} s^2 - C_1 R_1 R_L g_m s - C_1 R_1 g_m r_{oS} s + C_{gS}^2 C_{gR} R_1 R_L r_{oS}^2 s^3 + C_{gS}^2 C_{gR} R_1 R_L g_m r_{oS}^2 s^2 + C_{gS}^2 R_1 R_L r_{oS} s^2 - C_{gS}^2 R_L r_{oS} s^2 - C_{gS} C_{gR} R_1 R_L g_m r_{oS}^2 s^2 + C_{gS} C_{gR} R_1 R_L r_{oS} s + C_{gS} R_1 g_m r_{oS}^2 s + 2 C_{gS} R_1 g_m r_{oS} s + C_{gS} R_1 r_{oS} s + 2 C_{gS} (R_1 g_m - C_{gR} R_L g_m r_{oS} s + C_{gR} R_L s + C_{gR} r_{oS} - C_{gR} R_1 g_m r_{oS} s + C_{gS} R_1 g_m r_{oS} s + C_{gS} R_1 g_m r_{oS} s + C_{gS} R_1 r_{oS} s + C_{gS} R_1 s - R_1 g_m - R_L g_m - g_m r_{oS})}$$

10.32 INVALID-ORDER-32 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \infty, \frac{1}{C_L s} \right)$

[illegible]

