

$$U = H_{23}(0) - H_{4}(0) - H_{5}(0) - H_{7}(0) - H_{7}(0)$$

$$H_{y} u(a) := H_{23}(a) \cdot H_{1}(a) \cdot H_{5}(a) \cdot H_{7}(a) \cdot H_{9}(a)$$

$$H_{y} u(a) := \frac{L_{1}}{L_{3} + 1} \cdot L_{1} \cdot \frac{2}{3 + 1} \cdot \frac{8}{4 + 1} \cdot \frac{1}{1000} := \frac{256}{1000} \cdot \frac{1}{(940)(110)}$$

$$II \quad H_{y} v(a) := \frac{y(a)}{v(a)} \quad V_{1}(a) = \frac{1}{100} \cdot H_{7}(a) \cdot H_{8}(a)$$

$$H_{y} v(a) := -H_{6}(a) \cdot H_{7}(a) \cdot H_{8}(a)$$

$$H_{y} v(a) := -S \cdot \frac{8}{4 + 1} \cdot \frac{1}{1000} \cdot \frac{1}{100} \cdot \frac{1}{4 + 1} \cdot \frac{1}{1000} \cdot \frac{1}{100} \cdot \frac{1}{100} \cdot \frac{1}{1000} \cdot \frac{1}{$$

1+ H1(0) H23(0) H1(10) H5(0) H7(10) H8(0)

$$H_{23458}(s) = \frac{4}{4s+1} \cdot 4 \cdot \frac{2}{3+1} \cdot \frac{1}{1000} = \frac{32}{1000} \cdot \frac{1}{(3+n)(4s+n)}$$

$$\frac{8}{4s+1}$$

$$\frac{4}{14} = \frac{8}{4511}$$

$$\frac{1}{14} = \frac{256}{1000} = \frac{1}{(451)^2}$$

$$= \frac{8}{1000 (541)(4541)^{2}} = \frac{800 (541)(4541)}{1000 (541)(4541)^{2} + 256} = \frac{800 (541)(4541)^{2} + 256}{1000 (541)(4541)^{2}}$$

$$H_{ZY}(s) = -\frac{4000(s+1)(4s+1)}{1000(s+1)(4s+1)^2 + 256}$$

$$\frac{1}{1} + \frac{128}{100} + \frac{1}{128} + \frac{1}{100} + \frac{1}{128} + \frac{1}{100} + \frac{1$$

$$H_{12345}(0) = \frac{5}{3} (94) \cdot \frac{4}{4} \cdot \frac{2}{4 \cdot 34} = \frac{1600}{3(434)}$$

$$H_{78}(1) = \frac{8}{4340} \cdot \frac{1}{1000} = \frac{8}{1000(434)}$$

$$H_{1234578}(3) = \frac{1}{1000(434)} = \frac{1626}{3(434)}$$

$$1 - \frac{8}{1000(434)} \cdot \frac{1626}{3(434)}$$

$$= \frac{8 \cdot 355 (4541)}{1000 (4541)^{2} - 8.16} = \frac{8 \cdot 355 (4541)}{1000 (105 (4541)^{2} - 8.16)}$$

$$= \frac{1000 (4541)^{2}}{1000 (4541)^{2}}$$

$$H_{yy}(0) = \frac{3(43+1)}{253(43+1)^2-320}$$