

Solution Manual For Feedback Control Systems, 5th Edition

CHAPTER 2

2.1 (a) An ideal voltage source model implies constant voltage regardless of the external connections. This could result in current approaching infinity in the case of a short circuit and therefore would require infinite power to be supplied by the source. Similarly, an ideal current source implies constant current regardless of external connections. This cannot possibly be true in the case of an open circuit.

(b) An appropriately sized resistor in series with the ideal voltage source, or in parallel with the ideal current source, will provide a more accurate model of a physical power supply.

2.2 The operational amplifiers must be operating in their linear amplification range. This means that the output voltage can never exceed the power supply voltage. Usually, the ideal op-amp assumptions are used to develop a linear model.

2.3 (a)
$$\begin{bmatrix} R_1 + R_2 & -R_2 \\ -R_1 & R_1 + R_2 + L_2 s \end{bmatrix} \begin{bmatrix} I_1(s) \\ I_2(s) \end{bmatrix} = \begin{bmatrix} V_1(s) \\ 0 \end{bmatrix}, \quad V_1(s) = R_2 I_2(s)$$

$$I_2(s) = \frac{\begin{vmatrix} R_1 + R_2 & -R_2 \\ -R_1 & 0 \end{vmatrix}}{\begin{vmatrix} R_1 + R_2 & -R_2 \\ -R_1 & R_1 + R_2 + L_2 s \end{vmatrix}} = \frac{R_2 V_1(s)}{(R_1 + R_2) L_2 s + R_1 R_2 + R_2 R_1 + R_1 R_2}$$

$$\frac{V_1(s)}{V_1(s)} = \frac{R_2 R_2}{(R_1 + R_2) L_2 s + R_1 R_2 + R_2 R_1 + R_1 R_2}$$

(b) Replace R_2 with

$$\frac{(R_1 + R_2) R_2 L_2 s}{R_2 + L_2 s}$$

$$\frac{V_1(s)}{V_1(s)} = \frac{R_2 R_2 L_2 s}{L_2 L_2 (R_1 + R_2) s^2 + (R_1 (L_2 + L_2) (R_1 + R_2) + R_1 R_2 L_2) s + R_1 R_2 R_2}$$

(c)

$$V_1(s) = \frac{10}{s}$$

$$v_{\infty} = \lim_{s \rightarrow 0} \frac{s(10/s) R_2 R_2}{(R_1 + R_2) L_2 s + R_1 R_2 + R_2 R_1 + R_1 R_2} = \frac{10 R_2 R_2}{R_1 R_2 + R_2 R_1 + R_1 R_2}$$

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John Van De Vegte



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