
Solution Manual

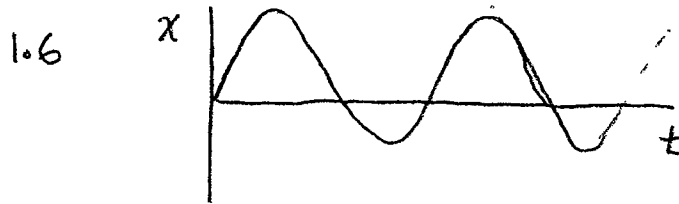
System Dynamics

**Modeling, Simulation and Control of
Mechatronic Systems**

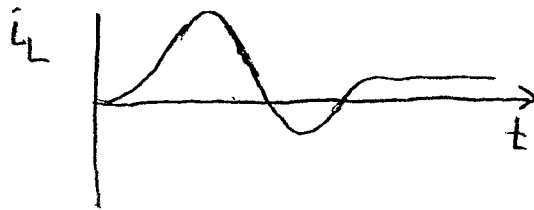
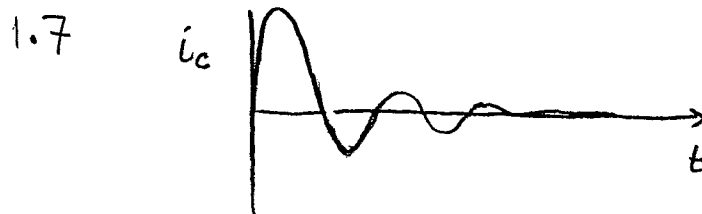
5th Edition

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Problems 1.1 to 1.5 are mainly discussion questions.



steady state deflection, $x_0 = \frac{(m+M)g}{k}$



$$i_{Lss} = \frac{E_0}{R}$$

1.8 $\left. \begin{array}{l} Q_a \text{ similar to } i_c \\ Q_I \text{ similar to } i_L \end{array} \right\} \text{ in prob. 1.7}$

$$Q_{Iss} = P_s / R_f$$

1.9

1-2

