

CHAPTER 5

B-5-1. Time constant = 0.25 min. The steady-state error is 2.5 degrees.

B-5-2. Rise time = 2.42 sec
 Peak time = 3.63 sec
 Maximum overshoot = 0.163
 Settling time = 8 sec (2% criterion)

B-5-3. The maximum overshoot of 5% corresponds to $\zeta = 0.69$. Hence

$$\omega_n = \frac{2}{\zeta} = \frac{2}{0.69} = 2.90 \text{ rad/sec}$$

B-5-4.

$$\frac{C(s)}{R(s)} = \frac{K(Ts+1)}{Js^2 + KTs + K}$$

Since $T = 3$, $K/J = 2/9$, we have

$$\frac{C(s)}{R(s)} = \frac{\frac{2}{9}(3s+1)}{s^2 + (\frac{2}{9})3s + \frac{2}{9}}$$

Hence, $2\zeta\omega_n = 6/9$ and $\omega_n^2 = 2/9$. Thus

$$\zeta = 0.707$$

B-5-5. When the mass m is set into motion by a unit-impulse force, the system equation becomes

$$m\ddot{x} + kx = \delta(t)$$

Define another impulse force to stop the motion as $A\delta(t - T)$, where A is the undetermined magnitude of the impulse force and $t = T$ is the undetermined instant that this impulse is to be given to the system. Then, the equation for the system when the two impulse forces are given is

$$m\ddot{x} + kx = \delta(t) + A\delta(t - T), \quad x(0^-) = 0, \quad \dot{x}(0^-) = 0$$

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JA Banks



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Solutions Manual, Modern Control Engineering, Fourth Edition Katsuhiko Ogata, 2002 *Unmanned Aircraft Design* Mohammad H. Sadraey, 2024-09-07 This book provides fundamental principles design procedures and design tools for unmanned aerial vehicles UAVs with three sections focusing on vehicle design autopilot design and ground system design The design of manned aircraft and the design of UAVs have some similarities and some differences They include the design process constraints e g g load pressurization and UAV main components autopilot ground station communications system sensors and payload A UAV designer must be aware of the latest UAV developments current technologies know lessons learned from past failures and they should appreciate the breadth of UAV design options The contribution of unmanned aircraft continues to expand every day and over 67 countries are developing and employing UAVs for both military and civil scientific purposes A UAV system is much more than a reusable air vehicle or vehicles UAVs are air vehicles they fly like airplanes and operate in an airplane environment They are designed like air vehicles they have to meet critical air vehicle requirements A designer needs to know how to integrate complex multi disciplinary systems and to understand the environment the requirements and the design challenges and this book is an excellent overview of the fundamentals from an engineering perspective This book is meant to meet the needs of newcomers into the world of UAVs The materials are intended to provide enough information in each area and illustrate how they all play together to support the design of a complete UAV Therefore this book can be used both as a reference for engineers entering the field or as a supplementary text for a UAV design course to provide system level context for each specialized topic The second edition is extensively revised Some of the new terminologies concepts and specific unmanned aircraft systems are introduced The revisions make the book clearer and easier to understand and will add number of new subjects in areas that have become more prominent in the unmanned aviation world Unmanned Aircraft Design Mohammad Sadraey, 2022-05-31 This book provides fundamental principles design procedures and design tools for unmanned aerial vehicles UAVs with three sections focusing on vehicle design autopilot design and ground system design The design of manned aircraft and the design of UAVs have some similarities and some differences They include the design process constraints e g g load pressurization and UAV main components autopilot ground station communication sensors and payload A UAV designer must be aware of the latest UAV developments current technologies know lessons learned from past failures and they should appreciate the breadth of UAV design options The contribution of unmanned aircraft continues to expand every day and over 20 countries are developing and employing UAVs for both military and scientific purposes A UAV system is much more than a reusable air vehicle or vehicles UAVs are air vehicles they fly like airplanes and operate in an airplane environment They are designed like air vehicles they have to meet flight critical air vehicle requirements A designer needs to know how to integrate complex multi disciplinary systems and to understand the environment the requirements and the design challenges and this book is an

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