

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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Weijiu Liu



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Solutions Manual, Modern Control Engineering, Fourth Edition Katsuhiko Ogata, 2002 **Solutions on Embedded Systems** Massimo Conti, Simone Orcioni, Natividad Martínez Madrid, Ralf E.D. Seepold, 2011-04-11 Embedded systems have an increasing importance in our everyday lives. The growing complexity of embedded systems and the emerging trend to interconnections between them lead to new challenges. Intelligent solutions are necessary to overcome these challenges and to provide reliable and secure systems to the customer under a strict time and financial budget. *Solutions on Embedded Systems* documents results of several innovative approaches that provide intelligent solutions in embedded systems. The objective is to present mature approaches to provide detailed information on the implementation and to discuss the results obtained. *Applied Electromechanical Devices and Machines for Electric Mobility Solutions* Adel El-Shahat, Mircea Ruba, 2020-03-25 In this book highly qualified multidisciplinary scientists present their recent research that has been motivated by the significance of applied electromechanical devices and machines for electric mobility solutions. It addresses advanced applications and innovative case studies for electromechanical parameter identification, modeling and testing of permanent magnet synchronous machine drives, investigation on internal short circuit identifications, induction machine simulation, CMOS active inductor applications, low cost wide speed operation generators, hybrid electric vehicle fuel consumption control technologies for high efficient applications, mechanical and electrical design calculations, torque control of a DC motor with a state space estimation and 2D layered nanomaterials for energy harvesting. This book is essential reading for students, researchers and professionals interested in applied electromechanical devices and machines for electric mobility solutions.

Modern Control Engineering Katsuhiko Ogata, 2010 Mathematical modeling of control systems Mathematical modeling of mechanical systems and electrical systems Mathematical modeling of fluid systems and thermal systems **Intelligent Control Systems with an Introduction to System of Systems Engineering** Thrishantha Nanayakkara, Ferat Sahin, Mo Jamshidi, 2018-09-03 From aeronautics and manufacturing to healthcare and disaster management systems engineering SE now focuses on designing applications that ensure performance optimization, robustness and reliability while combining an emerging group of heterogeneous systems to realize a common goal. Use SoS to Revolutionize Management of Large Organizations, Factories and Systems. Intelligent Control Systems with an Introduction to System of Systems Engineering integrates the fundamentals of artificial intelligence and systems control in a framework applicable to both simple dynamic systems and large scale system of systems SoS. For decades NASA has used SoS methods and major manufacturers including Boeing, Lockheed Martin, Northrop Grumman, Raytheon, BAE Systems now make large scale systems integration and SoS a key part of their business strategies, dedicating entire business units to this remarkably efficient approach. *Simulate Novel Robotic Systems and Applications Transcending theory* this book offers a complete and practical review of SoS and some of its fascinating applications including Manipulation of robots through neural based

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book starts with an overview of the main results in the inverse problem theory and continues with the presentation of basic results in discrete inverse theory The second part presents various forward and inverse problems resulting from modeling monitoring and controlling mechanical acoustic fluid and thermal systems Finally indirect and remote monitoring and control issues are analyzed as cases of ill posed inverse problems Numerous numerical examples illustrate current approaches used for solving practical inverse problems

Stress, Strain, and Structural Dynamics Bingen Yang, 2022-09-13 Stress Strain and Structural Dynamics An Interactive Handbook of Formulas Solutions and MATLAB Toolboxes Second Edition is the definitive reference to statics and dynamics of solids and structures including mechanics of materials structural mechanics elasticity rigid body dynamics vibrations structural dynamics and structural controls The book integrates the development of fundamental theories formulas and mathematical models with user friendly interactive computer programs that are written in MATLAB This unique merger of technical reference and interactive computing provides instant solutions to a variety of engineering problems and in depth exploration of the physics of deformation stress and motion by analysis simulation graphics and animation Combines knowledge of solid mechanics with relevant mathematical physics offering viable solution schemes Covers new topics such as static analysis of space trusses and frames vibration analysis of plane trusses and frames transfer function formulation of vibrating systems and more Empowers readers to better integrate and understand the physical principles of classical mechanics the applied mathematics of solid mechanics and computer methods Includes a companion website that features MATLAB exercises for solving a wide range of complex engineering analytical problems using closed solution methods to test against numerical and other open ended methods

Elementary Feedback Stabilization of the Linear Reaction-Convection-Diffusion Equation and the Wave Equation Weijiu Liu, 2009-12-01 Unlike abstract approaches to advanced control theory this volume presents key concepts through concrete examples Once the basic fundamentals are established readers can apply them to solve other control problems of partial differential equations

Electrochemical Phenomena in the Cathode Impedance Spectrum of PEM Fuel Cells Samuel Cruz-Manzo, Paul Greenwood, 2022-06-18 Electrochemical Phenomena in the Cathode Impedance Spectrum of PEM Fuel Cells Fundamentals Modelling and Applications establishes how the electrochemical and diffusion mechanisms of a polymer electrolyte membrane fuel cell PEMFC are related to electrochemical impedance spectroscopy EIS measurements using physics based impedance models derived from fundamental electrode and diffusion theories The contribution of the different phenomena occurring at the different layers comprising the cathode on the impedance response of the PEMFC is revealed through EIS modelling analysis The relation between EIS measurements and polarisation curves representing the performance of PEMFCs is established Insight is gained into how the EIS response of the PEMFC changes at different operating conditions e g relative humidity load demand gas reactant stoichiometry and temperature using physics based impedance models The application of impedance models with EIS measurements carried out in the individual cells

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