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CHAPTER 6

6.2-1. Consider the closed-loop system of Fig. P6.2-1.

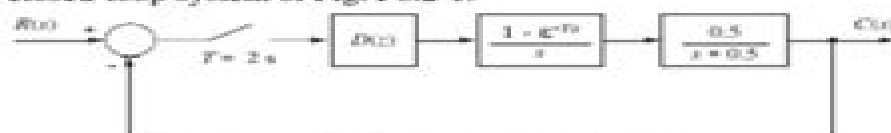


Figure P6.2-1 System for Problem 6.2-1.

- Calculate and plot the unit-step response at the sampling instants, for the case that $D(z) = 1$.
- Calculate the system unit-step response of the analog system, that is, with the sampler, digital controller, and data hold removed. Plot the response on the same graph with the results of part (a).
- For the system of Fig. P6.2-1, let $D(z) = 1$ and $T = 0.4$ s. Calculate the unit-step response and plot these results on the same graph used for parts (a) and (b).
- Use the system dc gains to calculate the steady-state responses for each of the systems of parts (a), (b), and (c). Why are these gains equal?

Solution:

$$(a) \quad G(z) = \left. \frac{z-1}{z} \right|_{s(z+0.5)}^{\left[\frac{0.5}{s(s+0.5)} \right]} = \frac{z-1}{z} \frac{(1-e^{-Ts})}{(z-1)(z-e^{-Ts})} = \frac{0.6321}{z-0.3679}$$

$$\frac{G(z)}{1+G(z)} = \frac{0.6321}{z-0.2642}$$

$$\frac{C(z)}{z} = \frac{0.6321}{z-0.2642} = \frac{0.5}{z-0.2642} + \frac{-0.5}{z-0.2642}$$

Digital Control Systems Analysis Solution Manual

Raymond G. Jacquot



Digital Control Systems Analysis Solution Manual:

Digital Control Systems Benjamin C. Kuo, 1980 *Modern Digital Control Sys 2e* Raymond G. Jacquot, 1995 This work presents traditional methods and current techniques of incorporating the computer into closed loop dynamic systems control combining conventional transfer function design and state variable concepts Digital Control Designer an award winning software program which permits the solution of highly complex problems is included 3 5 IBM compatible disk This edition supplies new coverage of the Ragazzini technique describes digital filtering including Butterworth prototype filters and more A solutions manual is included for instructors **Design and Analysis of Control Systems** Arthur G.O.

Mutambara, 2024-03-27 Written to inspire and cultivate the ability to design and analyse feasible control algorithms for a wide range of engineering applications this comprehensive text covers the theoretical and practical principles involved in the design and analysis of control systems This second edition introduces 4IR adoption strategies for traditional intelligent control including new techniques of implementing control systems It provides improved coverage of the characteristics of feedback control root locus analysis frequency response analysis state space methods digital control systems and advanced controls including updated worked examples and problems Features Describes very timely applications and contains a good mix of theory application and computer simulation Covers all the fundamentals of control systems Takes a transdisciplinary and cross disciplinary approach Explores updates for 4IR Industry 4 0 and includes better experiments and illustrations for nonlinear control systems Includes homework problems case studies examples and a solutions manual This book is aimed at senior undergraduate and graduate students professional engineers and academic researchers in interrelated engineering disciplines such as electrical mechanical aerospace mechatronics robotics and other AI based systems Engineering

Vibration Analysis with Application to Control Systems C. Beards, 1995-06-17 Most machines and structures are required to operate with low levels of vibration as smooth running leads to reduced stresses and fatigue and little noise This book provides a thorough explanation of the principles and methods used to analyse the vibrations of engineering systems combined with a description of how these techniques and results can be applied to the study of control system dynamics Numerous worked examples are included as well as problems with worked solutions and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion All engineers practising and student should have a good understanding of the methods of analysis available for predicting the vibration response of a system and how it can be modified to produce acceptable results This text provides an invaluable insight into both

Introduction to Digital Control Biswanath Samanta, 2024-10-17 This textbook presents an integrated approach to digital discrete time control systems covering analysis design simulation and real time implementation through relevant hardware and software platforms Topics related to discrete time control systems include z transform inverse z transform sampling and reconstruction open and closed loop system characteristics steady state accuracy for different system types

and input functions stability analysis in z domain Jury's test bilinear transformation from z to w domain stability analysis in w domain Routh Hurwitz criterion root locus techniques in z domain frequency domain analysis in w domain control system specifications in time and frequency domains design of controllers PI PD PID phase lag phase lead phase lag lead using time and frequency domain specifications state space methods controllability and observability pole placement controllers design of observers estimators full order prediction reduced order and current observers system identification optimal control linear quadratic regulator LQR linear quadratic Gaussian LQG estimator Kalman filter implementation of controllers and laboratory experiments for validation of analysis and design techniques on real laboratory scale hardware modules Both single input single output SISO and multi input multi output MIMO systems are covered Software platform of Matlab Simulink is used for analysis design and simulation and hardware software platforms of National Instruments NI LabVIEW are used for implementation and validation of analysis and design of digital control systems Demonstrating the use of an integrated approach to cover interdisciplinary topics of digital control emphasizing theoretical background validation through analysis simulation and implementation in physical laboratory experiments the book is ideal for students of engineering and applied science across a range of concentrations

Digital Control Engineering M. Sami Fadali, Antonio Visioli, 2012-08-21

Digital controllers are part of nearly all modern personal industrial and transportation systems Every senior or graduate student of electrical chemical or mechanical engineering should therefore be familiar with the basic theory of digital controllers This new text covers the fundamental principles and applications of digital control engineering with emphasis on engineering design Fadali and Visioli cover analysis and design of digitally controlled systems and describe applications of digital controls in a wide range of fields With worked examples and Matlab applications in every chapter and many end of chapter assignments this text provides both theory and practice for those coming to digital control engineering for the first time whether as a student or practicing engineer Extensive Use of computational tools Matlab sections at end of each chapter show how to implement concepts from the chapter Frees the student from the drudgery of mundane calculations and allows him to consider more subtle aspects of control system analysis and design An engineering approach to digital controls emphasis throughout the book is on design of control systems Mathematics is used to help explain concepts but throughout the text discussion is tied to design and implementation For example coverage of analog controls in chapter 5 is not simply a review but is used to show how analog control systems map to digital control systems Review of Background Material contains review material to aid understanding of digital control analysis and design Examples include discussion of discrete time systems in time domain and frequency domain reviewed from linear systems course and root locus design in s domain and z domain reviewed from feedback control course Inclusion of Advanced Topics In addition to the basic topics required for a one semester senior graduate class the text includes some advanced material to make it suitable for an introductory graduate level class or for two quarters at the senior graduate level Examples of optional topics are state space methods

which may receive brief coverage in a one semester course and nonlinear discrete time systems Minimal Mathematics

Prerequisites The mathematics background required for understanding most of the book is based on what can be reasonably expected from the average electrical chemical or mechanical engineering senior This background includes three semesters of calculus differential equations and basic linear algebra Some texts on digital control require more

Analog and Digital Control System Design Chi-Tsong Chen, 2006-02-24 This text s contemporary approach focuses on the concepts of linear control systems rather than computational mechanics Straightforward coverage includes an integrated treatment of both classical and modern control system methods The text emphasizes design with discussions of problem formulation design criteria physical constraints several design methods and implementation of compensators Discussions of topics not found in other texts such as pole placement model matching and robust tracking add to the text s cutting edge presentation Students will appreciate the applications and discussions of practical aspects including the leading problem in developing block diagrams noise disturbances and plant perturbations State feedback and state estimators are designed using state variable equations and transfer functions offering a comparison of the two approaches The incorporation of MATLAB throughout the text helps students to avoid time consuming computation and concentrate on control system design and analysis

Modern Control Engineering P.N. Paraskevopoulos, 2001-11-15 Illustrates the analysis behavior and design of linear control systems using classical modern and advanced control techniques Covers recent methods in system identification and optimal digital adaptive robust and fuzzy control as well as stability controllability observability pole placement state observers input output decoupling and model matching

U.S. Government Research & Development Reports ,1970

Monthly Catalog of United States Government Publications ,1991

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