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## CHAPTER 6

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

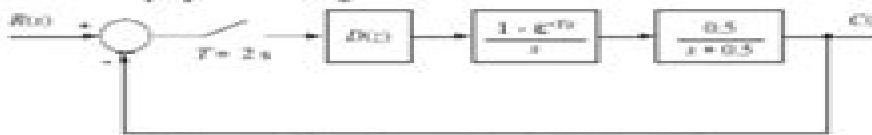


Figure P6.2-1 System for Problem 6.2-1.

- 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  $T = 0.4 \text{ s}$ . 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:**

$$(a) \quad G(z) = \frac{\frac{z-1}{z} \left[ \frac{0.5}{z(z-0.5)} \right]}{1 - \left[ \frac{(1-e^{-Tz})}{z} \right]} = \frac{z-1}{z} \frac{(1-e^{-Tz})}{(z-1)(z-e^{-Tz})} = \frac{0.6321}{z-0.3679}$$

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

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

# Control Engineering Digital Analysis

**M. Gopal**

## **Control Engineering Digital Analysis :**

*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

**Digital Control Engineering** M. Gopal, 1988      **Digital Control**

**Systems** Constantine H. Houpis, Gary B. Lamont, 1992 Continuous time control system response characteristics Linear systems and the sampling process Discrete systems modeling Discrete control analysis Discrete transform analysis approximations Principles of signal conversion and measurement Digital control system implementation Random processes in digital control systems Finite word lenght and compensator structure Cascade compensation digitization DIG technique Cascade compensation direct DIR technique Feedback compensation Discrete state variable model State space design methods Discrete quantitative feedback technique Modern discrete control theory Discrete optimal control Discrete estimation and stochastic control Fourier transform Convolution Pade approximation Power series Computer Aided Design

CAD programs for control Matrix manipulations Signal flow graphs w Transformation characteristics Number representations Theory of probability Discrete QFT design processes     *Digital Control Systems* Ioan Doré Landau,Gianluca Zito,2009-10-12 The extraordinary development of digital computers microprocessors microcontrollers and their extensive use in control systems in all fields of applications has brought about important changes in the design of control systems Their performance and their low cost make them suitable for use in control systems of various kinds which demand far better capabilities and performances than those provided by analog controllers However in order really to take advantage of the capabilities of microprocessors it is not enough to reproduce the behavior of analog PID controllers One needs to implement specific and high performance model based control techniques developed for computer controlled systems techniques that have been extensively tested in practice In this context identification of a plant dynamic model from data is a fundamental step in the design of the control system The book takes into account the fact that the association of books with software and on line material is radically changing the teaching methods of the control discipline Despite its interactive character computer aided control design software requires the understanding of a number of concepts in order to be used efficiently The use of software for illustrating the various concepts and algorithms helps understanding and rapidly gives a feeling of the various phenomena

**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 Simulnik 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 in a range of concentrations     Introduction to Control

Engineering Ajit K. Mandal,2006 The Text Is Written From The Engineer S Point Of View To Explain The Basic Oncepts Involved In Feedback Control Theory The Material In The Text Has Been Organized For Gradual And Sequential Development Of Control Theory Starting With A Statement Of The Task Of A Control Engineer At The Very Outset The Book Is Tended For An Introductory Undergraduate Course In Control Systems For Engineering Students This Text Presents A Comprehensive Analysis And Design Of Continuous Time Control Systems And Includes More Than Introductory Material For Discrete Systems With Adequate Guidelines To Extend The Results Derived In Connection Continuous Time Systems The Prerequisite For The Reader Is Some Elementary Owledge Of Differential Equations Vector Matrix Analysis And Mechanics Transfer Function And State Variable Models Of Typical Components And Subsystems Have Been Derived In The Appendix At The End Of The Book Most Of The Materials Including Solved And Unsolved Problems Presented In The Book Have Been Class Tested In Senior Undergraduates And First Year Graduate El Courses In The Field Of Control Systems At The Electronics And Telecommunication Engineering Department Jadavpur University Matlab Is The Most Widely Used Cad Software Package In Universities Throughout The World Some Representative Matlab Scripts Used For Solving Problems Are Cluded At The End Of Each Chapter The Detailed Design Steps Of Fuzzy Logic Based Controller Using Simulink And Matlab Has Been Provided In The Book To Give The Student A Head Start In This Emerging Discipline A Chapter Has Been Included To Deal With Nonlinear Components And Their Analysis G Matlab And Simulink Through User Defined S Functions Finally A Chapter Has Been Included To Deal With The Implementation Of Digital Controllers On Finite Bit Computer To Bring Out The Problems Associated With Digital Trollers In View Of Extensive Use Of Matlab For Rapid Verification Of Controller Designs Some Notes For Using Matlab Script M Files And Function M Files Are Included At The End Of The Book

*Digital Control System Analysis and Design* Charles L. Phillips,H. Troy Nagle (Jr.),1984 This revision of the best selling book for the digital controls course features new running applications and integration of MATLAB the most widely used software in controls Coverage of root locus design and the Fourier transform have also been increased

Digital Control of Dynamic Systems Gene F. Franklin,J. David Powell,Michael L. Workman,1998 Introduction Review of continuous control Introductory digital control Discrete systems analysis Sampled data systems Discrete equivalents Design using transform techniques Design using state space methods Multivariable and optimal control Quantization effects Sample rate selection System identification Nonlinear control Design of a disk drive servo a case study Appendix A Exemples Appendix B Tables Appendix C A few results from matrix analysis Appendix D Summary of facts from the theory of probability and stochastic processes Appendix E Matlab functions Appendix F Differences between Matlab v5 and v4 References Index

**Control Engineering**

,1986 *Instrumentation and automatic control systems* *U.S. Government Research Reports* ,1962

Digital Control

*Engineering Analysis and Design* ,2014 **Control Systems Engineering** William John Palm,1986 An up to date text designed for undergraduate courses in control systems engineering and principles of automatic controls Focuses on design

and implementation rather than just the mathematics of control systems Using a balanced approach the text presents a unified energy based approach to modeling covers analysis techniques for the models presented and offers a detailed study of digital control and the implementation of digital controllers Includes examples and homework problems

**Design and Analysis of Control Systems** Arthur G.O. Mutambara,1999-06-23 Written to inspire and cultivate the ability to design and

analyze 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 From the development of the mathematical models for dynamic systems the author shows how they are used to obtain system response and facilitate control then addresses advanced topics such as digital control systems adaptive and robust control and nonlinear control systems

**The Art of Control Engineering** Ken Dutton,Steve Thompson,Bill Barraclough,1997 The Art of Control Engineering provides a refreshingly new and practical treatment of the study of control systems The opening chapters assume no prior knowledge of the subject and are suitable for use in introductory courses The material then progresses smoothly to more advanced topics such as nonlinear systems Kalman filtering robust control multivariable systems and discrete event controllers Taking a practical perspective the text demonstrates how the various techniques fit into the overall picture of control and stresses the ingenuity required in choosing the best tool for each job and deciding how to apply it The most important topics are revisited at appropriate levels throughout the book building up progressively deeper layers of knowledge The Art of Control Engineering is an essential core text for undergraduate degree courses in control electrical and electronic systems and mechanical engineering Its broad practical coverage will also be very useful to postgraduate students and practising engineers

**Technical Abstract Bulletin** Defense Documentation Center (U.S.),1963

Foundations of Information Theory Amiel Feinstein,1958 CONTROL SYSTEMS, ROBOTICS AND AUTOMATION - Volume II Heinz Unbehauen,2009-10-11 This Encyclopedia of Control Systems Robotics and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Control Systems Robotics and Automation and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Sampled-Data Control Systems Jürgen Ackermann,2012-12-06 The first German edition of this book appeared in 1972 and in Polish translation in 1976 It covered the analysis and synthesis of sampled data systems The second German edition of 1983 extended the scope to design in particular design for robustness of control system properties with respect to uncertainty of plant parameters This book is a revised translation of the second German edition The revisions concern primarily a new treatment of the finite effect sequences and the use of nice numerical properties of Hessenberg

forms. The introduction describes examples of sampled data systems in particular digital controllers and analyzes the sampler and hold also some design aspects are introduced. Chapter 2 reviews the modelling and analysis of continuous systems. Pole shifting is formulated as an affine mapping here some new material on fixing some eigenvalues or some gains in a design step is included. Chapter 3 treats the analysis of sampled data systems by state space and z transform methods. This includes sections on inter sampling behavior, time delay systems, absolute stability and non synchronous sampling. Chapter 4 treats controllability and reachability of discrete time systems, controllability regions for constrained inputs and the choice of the sampling interval primarily under controllability aspects. Chapter 5 deals with observability and constructability both from the discrete and continuous plant output. Full and reduced order observers are treated as well as disturbance observers.

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.

*Nuclear Science Abstracts*, 1974 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre-dating the prestigious INIS database which began in 1970. NSA existed as a printed product Volumes 1-33 initially created by DOE's predecessor the U.S. Atomic Energy Commission AEC. NSA includes citations to scientific and technical reports from the AEC, the U.S. Energy Research and Development Administration and its contractors plus other agencies and international organizations, universities and industrial and research organizations. References to books, conference proceedings, papers, patents, dissertations, engineering drawings and journal articles from worldwide sources are also included. Abstracts and full text are provided if available.

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