



# Digital Control Systems

**Arthur G.O. Mutambara**



## Digital Control Systems:

*Introduction to Continuous and Digital Control Systems* Roberto Saucedo, Earl E. Schiring, 1968      **Digital Control Systems--theory, Hardware, Software** Constantine H. Houppis, Gary B. Lamont, 1985      Digital Control Systems Ioan Doré Landau, Gianluca Zito, 2007-05-11 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      Digital Control Engineering M. Gopal, 1988      **Analog and Digital Control Systems** Ramakant A. Gayakwad, Leonard Sokoloff, 1988      *Digital Control Systems* Benjamin C. Kuo, 1980      **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 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 Systems* Benjamin C. Kuo, 1992

**Digital Control Systems** Rolf Isermann, 1981 This well known book which appears in two volumes is an introduction to the field of digital sampled data control The second edition has been completely revised and expanded with new results The two volumes form a unit They take the reader systematically from fundamentals to problems of real applications with volume 2 concentrating on stochastic control treatment of interconnected control systems multivariable control and adaptive digital control systems The final part deals with practical considerations including examples of computer aided adaptive and self tuning controllers for various technical processes The work is directed towards students of electrical and mechanical engineering computer science and other fields like biology economics mathematics and physics It is also directed to engineers and scientists concerned with solving concrete problems

*Direct Digital Control* John J. McGowan, 1995

**Computer Controlled Systems** G. Perdikaris, 1991-09-30 The primary objective of the book is to provide advanced undergraduate or first year graduate engineering students with a self contained presentation of the principles fundamental to the analysis design and implementation of computer controlled systems The material is also suitable for self study by practicing engineers and is intended to follow a first course in either linear systems analysis or control systems A secondary objective of the book is to provide engineering and or computer science audiences with the material for a junior senior level course in modern systems analysis Chapters 2 3 4 and 5 have been designed with this purpose in mind The emphasis in such a course is to develop the mathematical tools and methods suitable for the analysis and design of real time systems such as digital filters Thus engineers and or computer scientists who know how to program computers can understand the mathematics relevant to the issue of what it is they are programming This is especially important for those who may work in engineering and scientific environments where for instance programming difference equations for real time applications is becoming increasingly common A background in linear algebra should be an adequate prerequisite for the systems analysis course Chapter 1 of the

book presents a brief introduction to computer controlled systems It describes the general issues and terminology relevant to the analysis design and implementation of such systems

**Direct Digital Control for Building HVAC Systems** Michael J. Coffin, 2012-12-06 Since the publication of the first edition in 1992 the HVAC industry has gone through enormous changes As simple digital systems have given way to more complex systems demand for information on how these systems operate how they are best applied and how they communicate with other building control systems has grown rapidly Direct Digital Control for Building Systems Second Edition is thoroughly updated and expanded to include coverage of the architecture of modern digital control systems distributed intelligence networked systems communication protocols the technologies and issues concerning interoperability the latest application strategies and defensive techniques for designing and specifying control systems Numerous illustrations throughout help keep the subject highly accessible and hardware software and systems applications are described in the most universal terms possible This thoroughly revised second edition also contains a full section on BACnet standard and Echelon s LonWorks technology their meaning applications and future implications An up to date appendix is provided Insights on emerging technologies in intelligent control systems and what the future holds for this dynamic field is covered throughout

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*Direct Digital Control Systems* James Brian Knowles, 1994 Relates rigorously derived mathematical relationships for single input DDC systems to their practical design Deterministic and stochastic input data are considered with the objective of demonstrating the close mathematical similarities between results derived by the z and Laplace Transformations

**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

**Microprocessor-Based Control Systems** N.K. Sinha, 1986-06-30 Recent advances in LSI technology and the consequent availability of inexpensive but powerful microprocessors have already affected the process control industry in a significant manner Microprocessors are being increasingly utilized for improving the performance of control systems and making them more sophisticated as well as reliable Many concepts of adaptive and learning control theory which were considered impractical only 20 years ago are now being implemented With these developments there has been a steady growth in hardware and software tools to support the microprocessor in its complex tasks With the current trend of using several microprocessors for performing the complex tasks in a modern control system a great deal of emphasis is being given to the topic of the transfer and sharing of information between them Thus the subject of local area networking in the industrial environment has become assumed great importance The object of this book is to present both hardware and software concepts that are important in the development of microprocessor based control systems An attempt has been made to obtain a balance between theory and practice with emphasis on practical applications It should be useful for both practicing engineers and students who are interested in learning the practical details of the implementation of microprocessor based control systems As some of the related material has been published in the earlier volumes of this series duplication has been avoided as far as possible

**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

*Digital Control Systems* Rolf Isermann, 2012-11-26 This well known book is an introduction to the field of digital sampled data control It treats the field in depth and can be used for courses and for self study The second edition has been completely revised and expanded with new results The work now appears in two volumes with Volume 2 to be published in 1989 The volumes form a unit and take the reader systematically from fundamentals to problems of real applications The work is directed towards

students of electrical and mechanical engineering computer science especially with a specialization on automation and control engineering and other fields like biology economics space mathematics and physics It is also directed to engineers and scientists concerned with solving concrete problems Analog and Digital Control System Design Chi-Tsong Chen,1993  
Mathematical Preliminary Development of Block Diagrams for Control Systems Quantitative and Qualitative Analyses of Control Systems Computer Simulation and Realization Design Criteria Constraints and Feedback The Root Locus Method Frequency Domain Techniques The Inward Approach Choice of Overall Transfer Functions Implementation Linear Algebraic Method State Space Design Discrete Time System Analysis Discrete Time System Design PID Controllers

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