

Digital Signal Processing (DSP)



Digital Control Using Digital Signal Processing

N. B. Mariun



Digital Control Using Digital Signal Processing:

Digital Signal Processing in Power Electronics Control Circuits Krzysztof Sozański, 2013-07-03 Many digital control circuits in current literature are described using analog transmittance. This may not always be acceptable especially if the sampling frequency and power transistor switching frequencies are close to the band of interest. Therefore a digital circuit is considered as a digital controller rather than an analog circuit. This helps to avoid errors and instability in high frequency components. Digital Signal Processing in Power Electronics Control Circuits covers problems concerning the design and realization of digital control algorithms for power electronics circuits using digital signal processing DSP methods. This book bridges the gap between power electronics and DSP. The following realizations of digital control circuits are considered: digital signal processors, microprocessors, microcontrollers, programmable digital circuits. Discussed in this book is signal processing starting from analog signal acquisition through its conversion to digital form, methods of its filtration and separation, and ending with pulse control of output power transistors. The book is focused on two applications for the considered methods of digital signal processing: an active power filter and a digital class D power amplifier. The major benefit to readers is the acquisition of specific knowledge concerning discussions on the processing of signals from voltage or current sensors using a digital signal processor and to the signals controlling the output inverter transistors. Included are some Matlab examples for illustration of the considered problems.

Digital Control Using Digital Signal Processing
Farzad Nekoogar, Gene Moriarty, 1999 This text introduces digital control systems and demonstrates how to analyze and design these systems. It shows how to use DSPs to implement controllers designed with both classical frequency domain techniques and modern state variable methods. Computer aided analysis and design tools like MATLAB are used throughout and the basic mathematics of digital control systems are presented early so users have the grounding they need to solve real world problems. Classical design techniques for compensators are explained as is the use of DSPs to implement compensator transfer functions. The book closes with a detailed look at modern state space techniques like pole placement, state estimation, the optimal linear quadratic regulator and a brief discussion of fuzzy logic design.

Digital Signal Processing in Power Electronics Control Circuits Krzysztof Sozanski, 2013-07-06 Many digital control circuits in current literature are described using analog transmittance. This may not always be acceptable especially if the sampling frequency and power transistor switching frequencies are close to the band of interest. Therefore a digital circuit is considered as a digital controller rather than an analog circuit. This helps to avoid errors and instability in high frequency components. Digital Signal Processing in Power Electronics Control Circuits covers problems concerning the design and realization of digital control algorithms for power electronics circuits using digital signal processing DSP methods. This book bridges the gap between power electronics and DSP. The following realizations of digital control circuits are considered: digital signal processors, microprocessors, microcontrollers, programmable digital circuits. Discussed in this book is signal processing starting from

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Digital Signal Processing Li Tan, Jean Jiang, 2018-10-02 Digital Signal Processing Fundamentals and Applications Third Edition not only introduces students to the fundamental principles of DSP it also provides a working knowledge that they take with them into their engineering careers Many instructive worked examples are used to illustrate the material and the use of mathematics is minimized for an easier grasp of concepts As such this title is also useful as a reference for non engineering students and practicing engineers The book goes beyond DSP theory showing the implementation of algorithms in hardware and software Additional topics covered include adaptive filtering with noise reduction and echo cancellations speech compression signal sampling digital filter realizations filter design multimedia applications over sampling etc More advanced topics are also covered such as adaptive filters speech compression such as PCM law ADPCM and multi rate DSP over sampling ADC subband coding and wavelet transform Covers DSP principles with an emphasis on communications and control applications Includes chapter objectives worked examples and end of chapter exercises that aid the reader in grasping key concepts and solving related problems Provides an accompanying website with MATLAB programs for simulation and C programs for real time DSP Presents new problems of varying types and difficulties

Digital Signal Processing Li Tan, 2007-09-04 This book will enable electrical engineers and technicians in the fields of the biomedical computer and electronics engineering to master the essential fundamentals of DSP principles and practice Coverage includes DSP principles applications and hardware issues with an emphasis on applications Many instructive worked examples are used to illustrate the material and the use of mathematics is minimized for easier grasp of concepts In addition to introducing commercial DSP hardware and software and industry standards that apply to DSP concepts and algorithms topics covered include adaptive filtering with noise reduction and echo cancellations speech compression signal sampling digital filter realizations filter design multimedia applications over sampling etc More advanced topics are also covered such as adaptive filters speech compression such as PCM u law ADPCM and multi rate DSP and over sampling ADC Covers DSP principles and hardware issues with emphasis on applications and many worked examples End of chapter problems are helpful in ensuring retention and understanding of what was just read

Digital Signal Processing Li Tan, Jean Jiang, 2025-02-05 Digital Signal Processing Fundamentals Applications and Deep Learning Fourth Edition introduces students to the fundamental principles of digital signal processing DSP while also providing a working knowledge that they take with them into their engineering careers Many instructive worked examples are used to illustrate the material

and the use of mathematics is minimized for an easier grasp of concepts As such this title is also useful as a reference for non engineering students and practicing engineers This book goes beyond DSP theory showing the implementation of algorithms in hardware and software Additional topics covered include DSP for artificial intelligence adaptive filtering with noise reduction and echo cancellations speech compression signal sampling digital filter realizations filter design multimedia applications over sampling etc More advanced topics are also covered such as adaptive filters speech compression such as pulse code modulation law adaptive differential pulse code modulation multi rate DSP oversampling analog to digital conversion sub band coding wavelet transform and neural networks Covers DSP principles with various examples of real world DSP applications on noise cancellation communications control applications and artificial intelligence Includes application examples using DSP techniques for deep learning neural networks to solve real world problems Provides a new chapter to cover principles of artificial neural networks and convolution neural networks with back propagation algorithms Provides hands on practice with MATLAB code for worked examples and C programs for real time DSP for students at <https://www.elsevier.com/books-and-journals/book-companion/9780443273353> Offers teaching support including an image bank full solutions manual and MATLAB projects for qualified instructors available for request at <https://educate.elsevier.com/9780443273353>

Digital Signal Processing N. B. Jones, J. D. McK. Watson, 1990 This volume presents the fundamentals of data signal processing ranging from data conversion to z transforms and spectral analysis In addition to presenting basic theory and describing the devices the material is complemented by real examples in specific case studies *Digital Signal Processing in Power System Protection and Control* Waldemar Rebizant, Janusz Szafran, Andrzej Wiszniewski, 2011-07-28

Digital Signal Processing in Power System Protection and Control bridges the gap between the theory of protection and control and the practical applications of protection equipment Understanding how protection functions is crucial not only for equipment developers and manufacturers but also for their users who need to install set and operate the protection devices in an appropriate manner After introductory chapters related to protection technology and functions *Digital Signal Processing in Power System Protection and Control* presents the digital algorithms for signal filtering followed by measurement algorithms of the most commonly used protection criteria values and decision making methods in protective relays A large part of the book is devoted to the basic theory and applications of artificial intelligence techniques for protection and control Fuzzy logic based schemes artificial neural networks expert systems and genetic algorithms with their advantages and drawbacks are discussed AI techniques are compared and it is also shown how they can be combined to eliminate the disadvantages and magnify the useful features of particular techniques The information provided in *Digital Signal Processing in Power System Protection and Control* can be useful for protection engineers working in utilities at various levels of the electricity network as well as for students of electrical engineering especially electrical power engineering It may also be helpful for other readers who want to get acquainted with and to apply the filtering measuring

and decision making algorithms for purposes other than protection and control everywhere fast and on line signal analysis is needed for proper functioning of the apparatus

Digital Signal Processing with C and the TMS320C30 Rulph Chassaing, 1992-11-18 Digital Signal Processing With the TMS320C25 Rulph Chassaing and Darrell W Horning Two leading experts in the field offer detailed state of the art guidance on building digital signal processing tools Through the development of actual programming examples the book demonstrates how DSP theory is put to practical use Current problems in digital signal filtering such as finite impulse response filters infinite impulse response filters and fast Fourier transform are addressed through the step by step implementation of assembly language code for a modern real time digital signal processor the TMS320C25 Hardware considerations specific to the TMS320C25 such as memory organization addressing modes and representation of fixed and floating point numbers are discussed in relation to software development 1990 0 471 51066 1 464 pp

Digital Filter Design T W Parks and C S Burrus The book is excellently written and fully illustrated it will soon become a reference book in the area of digital filter design Mathematics Abstracts With coverage from basic theory to working programs this clear practical text addresses frequency domain analysis design and implementation of linear constant coefficient digital filters on general purpose computers and special purpose signal processors Offering a complete self contained treatment of both FIR and IIR filters a feature unique to this text the book examines their underlying design theory design formulas and algorithms Detailed coverage also includes a discussion of filter properties the approximation problem and implementation of the filter with fixed point arithmetic The book also includes detailed examples that illustrate the design and implementation of a typical filter as well as listings for nine FORTRAN programs for filter design 1987 0 471 82896 3 342 pp

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Servo Motor and Motion Control Using Digital Signal Processors Yasuhiko Dote, 1990 Digital Signal Processing Rulph Chassaing, 1998-11-16 A practical guide to using the TMS320C31 DSP Starter Kit With applications and demand for high performing digital signal processors expanding rapidly it is becoming increasingly important for today's students and practicing engineers to master real time digital signal processing DSP techniques Digital Signal Processing Laboratory Experiments Using C and the TMS320C31 DSK offers users a practical and economical approach to understanding DSP principles designs and applications Demonstrating Texas Instruments TI state of the art low priced DSP

Starter Kit DSK this book clearly illustrates and integrates practical aspects of real time DSP implementation techniques and complex DSP concepts into lab exercises and experiments TI sTMS320C31 digital signal processor provides substantial performance benefits for designs that have floating point capabilities supported by high level language compilers Most chapters begin with a theoretical discussion followed by representative examples With numerous programming examples using TMS320C3x and C code included on disk this easy to read text Covers DSK tools the architecture and instructions for the TMS320C31 processor Illustrates input and output Introduces the z transform Discusses finite impulse response FIR filters including the effect of window functions Covers infinite impulse response IIR filters Discusses the development and implementation of the fast Fourier transform FFT Examines utility of adaptive filters for different applications Bridging the gap between theory and application this book furnishes a solid foundation for DSP lab or project design courses for students and serves as a welcome practically oriented tutorial in the latest DSP techniques for working professionals

Digital Signal Processing and Control and Estimation Theory Alan S. Willsky, 1979 The purpose of this book is to explore several specific areas of research in two distinct but related fields digital signal processing and modern control and estimation theory There are enough similarities and differences in the philosophies goals and analytical techniques of the two fields to indicate that a concerted effort to understand these better might lead to some useful interaction and collaboration among researchers The author writes that his examination will in general not be result oriented Instead I have been most interested in understanding the goals of the research and the methods and approach used Understanding the goals may help us to see why the techniques used in the two disciplines differ Inspecting the methods and approaches may allow one to see areas in which concepts in one field may be usefully applied in the other The book undoubtedly has a control oriented flavor since it reflects the author s background and also since the original purpose of this study was to present a control theorist s point of view at the 1976 Arden House Workshop on Digital Signal Processing However an effort has been made to explore avenues in both disciplines in order to encourage researchers in the two fields to continue along these lines Indeed the book contains numerous suggestions for new research directions and speculations on possible new results all of them a direct result of the purposeful mixing of the ideas of the two disciplines For the benefit of researchers who may wish to follow up some of these suggestions and speculations the author has assembled a comprehensive bibliography consisting of more than 600 references In order to achieve his unique perspective of viewing each field in the context of the other the author examines such topics as stability analysis of feedback control systems and digital filters subject to the effects of finite wordlength arithmetic linear prediction parameter identification and relationships involving Kalman filtering and fast algorithms system synthesis realization and implementation two dimensional filtering decentralized control and estimation and some of their connections with image processing and aspects of nonlinear system theory including homomorphic and bilinear systems

Fundamentals of Digital Signal Processing Using MATLAB Robert J. Schilling, Sandra L Harris, 2011-01-01 This second

edition text focuses on the fundamentals of digital signal processing with an emphasis on practical applications In order to motivate students many of the examples illustrate the processing of speech and music This theme is also a focus of the course software that features facilities for recording and playing sound on a standard PC The accompanying website contains a comprehensive MATLAB software package called the Fundamentals of Digital Signal Processing FDSP toolbox version 2 0 The FDSP toolbox includes chapter GUI modules an extensive library of DSP functions direct access to all of the computational examples figures and tables solutions to selected problems and online help documentation Using the interactive GUI modules students can explore compare and directly experience the effects of signal processing techniques without any need for programming Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

Digital Signal Processing in Power Electronics Control Circuits Krzysztof Sozański, 2017-05-10 This revised and extended second edition covers problems concerning the design and realization of digital control algorithms for power electronics circuits using digital signal processing DSP methods This book discusses signal processing starting from analog signal acquisition through conversion to digital form methods of filtration and separation and ending with pulse control of output power transistors The book is focused on two applications for the considered methods of digital signal processing a three phase shunt active power filter and a digital class D audio power amplifier The book bridges the gap between power electronics and digital signal processing Many control algorithms and circuits for power electronics in the current literature are described using analog transmittances This may not always be acceptable especially if half of the sampling frequencies and half of the power transistor switching frequencies are close to the band of interest Therefore in this book a digital circuit is treated as a digital circuit with its own peculiar characteristics rather than an analog circuit This helps to avoid errors and instability This edition includes a new chapter dealing with selected problems of simulation of power electronics systems together with digital control circuits The book includes numerous examples using MATLAB and PSIM programs

Digital Signal Processing and Applications Dag Stranneby, 2004-09-10 A uniquely practical DSP text this book gives a thorough understanding of the principles and applications of DSP with a minimum of mathematics and provides the reader with an introduction to DSP applications in telecoms control engineering and measurement and data analysis systems The new edition contains Expanded coverage of the basic concepts to aid understanding New sections on filter synthesis control theory and contemporary topics of speech and image recognition Full solutions to all questions and exercises in the book Assuming the reader already has some prior knowledge of signal theory this textbook will be highly suitable for undergraduate and postgraduate students in electrical and electronic engineering taking introductory and advanced courses in DSP as well as courses in communications and control systems engineering It will also prove an invaluable introduction to DSP and its applications for the professional engineer Expanded coverage of the basic concepts to aid understanding along with a wide range of DSP applications New

textbook features included throughout including learning objectives summary sections exercises and worked examples to increase accessibility of the text Full solutions to all questions and exercises included in the book [Digital Signal Processing Using the Motorola DSP Family](#) Robert J. Simpson,1994 This tutorial reference focuses on both the hardware and software features of the Motorola DSP family of processors that have been developed to satisfy a wide range of digital signal process applications It introduces features architectures characteristics and more of DSProcessors [Digital Signal Processing](#) Winser Alexander,Cranos M Williams,2016-11-14 Digital signal processing DSP has been applied to a very wide range of applications This includes voice processing image processing digital communications the transfer of data over the internet image and data compression etc Engineers who develop DSP applications today and in the future will need to address many implementation issues including mapping algorithms to computational structures computational efficiency power dissipation the effects of finite precision arithmetic throughput and hardware implementation It is not practical to cover all of these in a single text However this text emphasizes the practical implementation of DSP algorithms as well as the fundamental theories and analytical procedures that form the basis for modern DSP applications Digital Signal Processing Principles Algorithms and System Design provides an introduction to the principals of digital signal processing along with a balanced analytical and practical treatment of algorithms and applications for digital signal processing It is intended to serve as a suitable text for a one semester junior or senior level undergraduate course It is also intended for use in a following one semester first year graduate level course in digital signal processing It may also be used as a reference by professionals involved in the design of embedded computer systems application specific integrated circuits or special purpose computer systems for digital signal processing multimedia communications or image processing Covers fundamental theories and analytical procedures that form the basis of modern DSP Shows practical implementation of DSP in software and hardware Includes Matlab for design and implementation of signal processing algorithms and related discrete time systems Bridges the gap between reference texts and the knowledge needed to implement DSP applications in software or hardware *Digital Signal Processing using MATLAB* Robert J. Schilling,Sandra L Harris,2016-01-01 Now readers can focus on the development implementation and application of modern DSP techniques with the new DIGITAL SIGNAL PROCESSING USING MATLAB 3E Written using an engaging informal style this edition inspires readers to become actively involved with each topic Every chapter starts with a motivational section that highlights practical examples and challenges that readers can solve using techniques covered in the chapter Each chapter concludes with a detailed case study example chapter summary and a generous selection of practical problems cross referenced to sections within the chapter Important Notice Media content referenced within the product description or the product text may not be available in the ebook version [Implementation of Digital Control Algorithm for Motor Control Using Digital Signal Processor](#) N. B. Mariun,1998 Digital control algorithms based on discrete time control model that is implemented using Digital Signal Processors DSPs is currently being widely used

to realize high performance and complex control applications requiring real time processing such as motor control 1 Most controllers are already designed or will be designed using the continuous time control model This gives a problem of implementing a digital controller based on analog controller design The effective approximation of discrete time systems from continuous time systems depends on the required characteristics of the controlled process that needs to be compensated and controlled This paper outlines the implementation of digital control algorithms by approximating discrete time controller models from continuous time controller models for motor control using DSP Authors abstract

Fundamentals of Digital Signal Processing Using MATLAB Robert Joseph Schilling, Sandra L. Harris, 2005 This innovative text and CD ROM focuses on the fundamentals of digital signal processing with an emphasis on practical applications In order to motivate students many of the examples illustrate the processing of speech and music This theme is also a focus of the course software that features facilities for recording and playing sound on a standard PC The accompanying CD ROM contains a comprehensive MATLAB software package called the Fundamentals of Digital Signal Processing FDSP toolbox The FDSP toolbox includes chapter GUI modules an extensive library of DSP functions all computational examples that appear in the text the text figures solutions to selected problems and online help documentation Using the interactive GUI modules students can explore compare and directly experience the effects of signal processing techniques without any need for programming

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