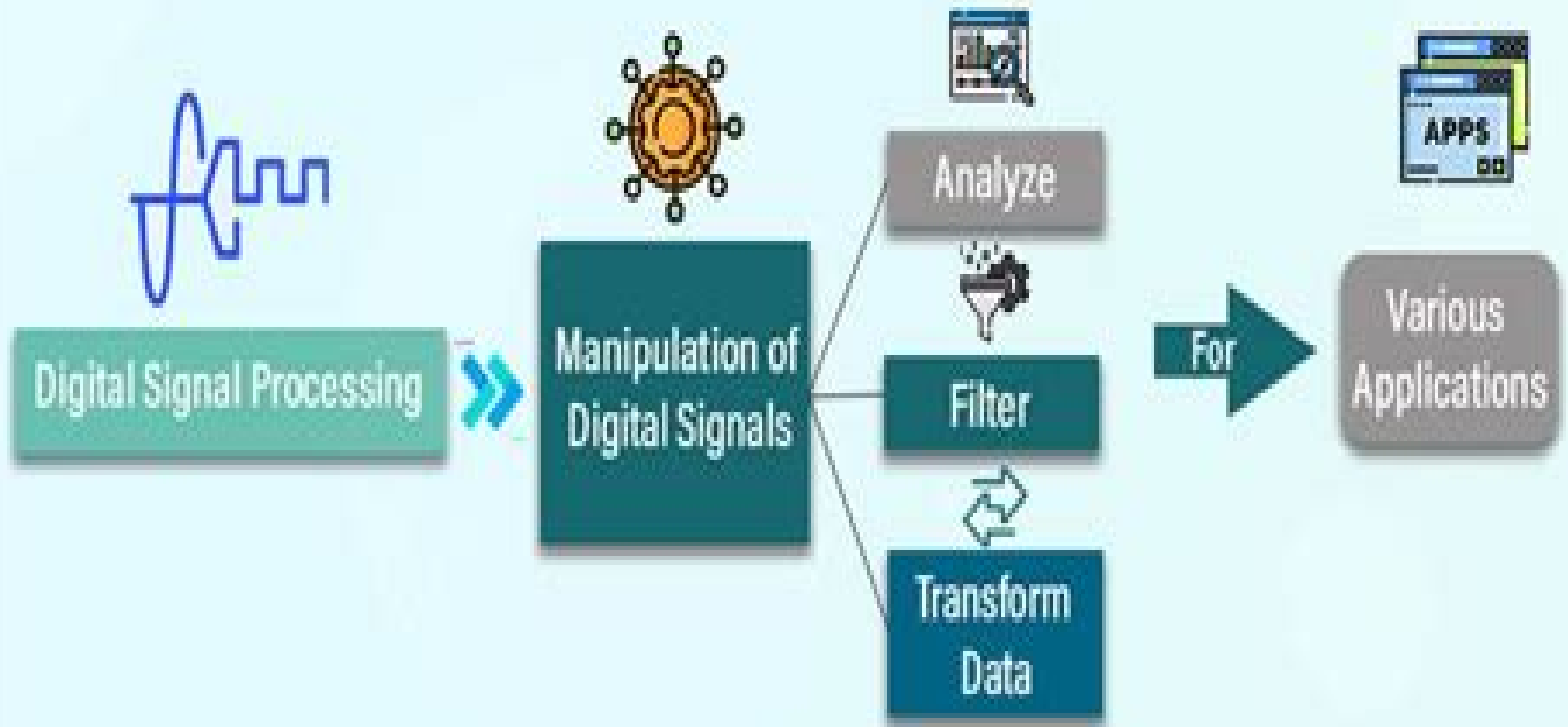


Digital Signal Processing (DSP)



Digital Control Using Digital Signal Processing

**Waldemar Rebizant, Janusz
Szafran, Andrzej Wiszniewski**



Digital Control Using Digital Signal Processing:

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 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 in Power Electronics Control Circuits Krzysztof Sozanski, 2013-07-18 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 *A Practical Approach to Digital Signal Processing* K. Padmanabhan, 2006 This Book Presents An Exhaustive Exposition Of The Theory And Practice Of Digital Signal Processing Basic Concepts And Techniques Have Been Explained In Detail And Suitably Illustrated With Practical Examples And Software Programs Practice Problems And Projects Have Also Been Given Throughout The Book The Book Begins With An Introduction To Signals And The Relative Merits Of Analog And Digital Methods Hardware Details Of Present Day Dsp Integrated Circuits Are Explained Next And Full Tested Circuits Are Provided For Project Work By Students Fourier Transforms Are Then Explained In Detail Subsequently Recursive Filter Design Methods Are Discussed With Typical Examples And Programs An Exhaustive Account Of Various Filters Is Then Given With Design Techniques The Discussion Is Illustrated Through Software Programs And Practical Design Examples The Book Concludes With A Detailed Discussion Of Lattice Type Filters And Their Usage In Speech Processing With Its Comprehensive Coverage And Practical Approach This Is An Essential Text For Electrical Electronics And Communication Engineering Students Practising Engineers Would Also Find This Book To Be A Valuable Reference Source **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** 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 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 DFT FFT And Convolution Algorithms Theory and Implementation C S Burrus and T W Parks Written for the scientist or engineer conversant with continuous time signals and discrete time signal analysis, this book details the Fourier transform of a discrete time signal. Efficient algorithms for computing the Discrete Fourier Transform (DFT) are given special emphasis. Coverage includes continuous and discrete time transform analysis of signals and properties of the DFT, methods of computing the DFT at a few frequencies, direct Goertzel and chirp transforms, and the three main approaches to an FFT: Cooley Tukey, primefactor, and Winograd transforms. The book also features FORTRAN programs for the DFT which may be used directly or as a basis for custom program development for special applications. 1985 0 471

81932 8 232 pp 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> *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 **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

Servo Motor and Motion Control Using Digital Signal Processors Yasuhiko Dote, 1990 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

Scientific and Technical Aerospace Reports, 1976

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

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 Rulph Chassaing, 1998-11-16 A practical guide to using the TMS320C31 DSP Starter Kit With applications and demand for high performing digital signalprocessors expanding rapidly it is becoming increasingly importantfor today s students and practicing engineers to master real timedigital signal processing DSP techniques Digital Signal Processing Laboratory Experiments Using C and theTMS320C31 DSK offers users a practical and economicalm approachto understanding DSP principles designs and applications Demonstrating Texas Instruments TI state of the art low pricedDSP Starter Kit DSK this book clearly illustrates and integratespractical aspects of real time DSP implementation techniques andcomplex DSP concepts into lab exercises and experiments TI sTMS320C31 digital signal processor provides substantial performancebenefits for designs that have floating point capabilitiesupported by high level language compilers Most chapters begin with a theoretical discussion followed byrepresentative examples With numerous programming examples usingTMS320C3x and C code included on disk this easy to read text Covers DSK tools the architecture and instructions for theTMS320C31 processor Illustrates input and output Introduces the z transform Discusses finite impulse response FIR filters including theeffect of window functions Covers infinite impulse response IIR filters Discusses the development and implementation of the fast Fouriertransform FFT Examines utility of adaptive filters for differentapplications Bridging the gap between theory and application this bookfurnishes a solid foundation for DSP lab or project design coursesfor students and serves as a welcome practically oriented tutorialin the latest DSP techniques for working professionals

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 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 Systems: Implementation Techniques, 1995-06-23 This volume on implementation techniques in digital signal processing systems clearly reveals the significance and power of the techniques that are available and with further development the essential role they will play as applied to a wide variety of areas The authors are all to highly commended for their splendid contributors to this volume which will provide a significant and unique international reference source for students research workers practicing engineers and others for years to come

Intelligent Control Systems and Signal Processing 2003 M. G. Ruano, António E. Ruano, Peter J. Fleming, 2003 KEY FEATURES The first IFAC conference and thus proceedings to be specifically devoted to this field Presents the findings of experts and practitioners from the major soft computing themes Provides an overview of the theory and applications of intelligent control systems and signal processing Intelligent control systems and signal processing 2003 contains the selection of papers presented at the IFAC International Conference on Intelligent Control systems and Signal Processing ICONS 2003 The conference was sponsored by the most important organizations in the field among them were the Institute of Electrical and Electronic Engineers IEEE and the Control Systems Society CSS This proceedings volume contains 98 papers with three separate reviewers having reviewed all papers Including six plenary lectures given by leading experts in the field

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