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Communication System Design Using DSP Algorithms - Steven A. Tretter 2014-01-15

Project Management Tools and Techniques - Deborah Sater Carstens 2019-11-04

The topic of project management is truly an evolution of art seeking science. This activity involves balancing project objectives against the constraints of time, budget, and quality. Achieving this balance requires skill, experience, along with the use of many tools, and techniques which are the focus of this book. This new edition provides updated content to incorporate examples from Microsoft Project 2016 and material from the Project Management Body of Knowledge (PMBOK® Guide), sixth edition. The chapter structure includes step-by-step instructions regarding the basic mechanics and various software tools that can be used to assist in the processes. To reinforce the textbook's learning objectives, extra material is provided on the textbook website. This includes mechanical tool examples and lab assignments representative of the chapter topics. An external video tutorial library is available to help with various mechanics related to Microsoft Project mechanics. An instructor manual is available for qualifying adoptions for classroom use. Features Illustrates the use of Microsoft Project throughout the project life cycle Offers templates as productivity enhancement tools Includes supplemental material for students and instructors Provides assignments for hands-on experience Follows the PMI PMBOK ® Guide model structure that will support a better understanding of the model and help prepare students for PMP and CAPM certification Illustrates both traditional and contemporary management techniques

Device Applications of Nonlinear Dynamic Salvatore Baglio 2007-07-07

This book is devoted to applications of complex nonlinear dynamic phenomena to real systems and device applications. In recent decades there has been significant progress in the theory of nonlinear phenomena, but there are comparatively few devices that actually take this rich behavior into account. The text applies and exploits this knowledge to propose devices which operate more efficiently and cheaply, while affording the promise of much better performance.

China Semiconductor Technology International Conference 2010 (CSTIC 2010) - Han-Ming Wu 2010-03

Our mission is to provide a forum for world experts to discuss technologies, address the growing needs associated with silicon technology, and exchange their discoveries and solutions for current issues of high interest. We encourage collaboration, open discussion, and critical reviews at this conference. Furthermore, we hope that this conference will also provide collaborative opportunities for those who are interested in the semiconductor industry in Asia, particularly in China.

TruCluster Server Handbook - Scott Fafrak 2003-01-10

The TruCluster Server Handbook authoritatively details how to plan, design, install, configure, and administer a cluster of Tru64 UNIX systems. The book explains how to configure and optimize hardware underlying a TruCluster server, including storage servers so critical to running a high-end cluster operation. This book provides best practices and techniques drawn from the authors' extensive experiences in the field with systems designers, systems managers, developers, and users. The authors include a former Tru64 UNIX Technical Group Leader with HP's Consulting Division and a top industry figure, and two former TruCluster Server Team Leaders with the Customer Support Center. Learn to install TruCluster Server from the ground up Get the most out of your cluster environment with the authors' practical tips and tricks Attain availability, scalability, and simplified manageability in your IT systems operation

Proceedings- American Society for Engineering Education. Conference 1995

Using and Improving OpenMP for Devices, Tasks, and More - Luiz DeRose 2014-09-23

This book constitutes the refereed proceedings of the 10th International Workshop on OpenMP, held in Salvador, Brazil, in September 2014. The 16 technical full papers presented were carefully reviewed and selected from 18 submissions. The papers are organized in topical sections on tasking models and their optimization; understanding and verifying correctness of OpenMP programs; OpenMP memory extensions; extensions for tools and locks; experiences with OpenMP device constructs.

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications - Eduardo Bayro-Corrochano 2009-11-16

The 14th Iberoamerican Congress on Pattern Recognition (CIARP 2009, C-gresoIberoAmericanodeReconocimientodePatrones)formedthelatestofano

w longseriesofsuccessfulmeetingsarrangedbytherapidlygrowingIberoameric an pattern recognition community. The conference was held in Guadalajara, Jalisco, Mexico and organized by the Mexican Association for Computer Vision, Neural Computing and Robotics (MACVNR). It was sponsodred by MACVNR and ?ve other Iberoamerican PR societies. CIARP 2009 was like the previous conferences in the series supported by the International Association for Pattern Recognition (IAPR). CIARP 2009 attracted participants from all over the world presenting sta- of-the-artresearchon mathematical methods and computing techniques for p- tern recognition, computer vision, image and signal analysis, robot vision, and speech recognition, as well as on a wide range of their applications. This time the conference attracted participants from 23 countries,9 in Ibe- america, and 14 from other parts of the world. The total number of submitted papers was 187, and after a serious review process 108 papers were accepted, all of them with a scienti?c quality above overall mean rating. Sixty-four were selected as oral presentations and 44 as posters. Since 2008 the conference is almost single track, and therefore there was no real grading in quality between oral and poster papers. As an acknowledgment that CIARP has established itself as a high-quality conference, its proceedings appear in the Lecture Notes in Computer Science series. Moreover, its visibility is further enhanced by a selection of a set of papers that will be published in a special issue of the journal Pattern Recognition Letters.

Multicore DSP - Naim Dahnoun 2018-02-12

The only book to offer special coverage of the fundamentals of multicore DSP for implementation on the TMS320C66xx SoC This unique book provides readers with an understanding of the TMS320C66xx SoC as well as its constraints. It offers critical analysis of each element, which not only broadens their knowledge of the subject, but aids them in gaining a better understanding of how these elements work so well together. Written by Texas Instruments' First DSP Educator Award winner, Naim Dahnoun, the book teaches readers how to use the development tools, take advantage of the maximum performance and functionality of this processor and have an understanding of the rich content which spans from architecture, development tools and programming models, such as OpenCL and OpenMP, to debugging tools. It also covers various multicore audio and image applications in detail. Additionally, this one-of-a-kind book is supplemented with: A rich set of tested laboratory exercises and solutions Audio and Image processing applications source code for the Code Composer Studio (integrated development environment from Texas Instruments) Multiple tables and illustrations With no other book on the market offering any coverage at all on the subject and its rich content with twenty chapters, Multicore DSP: From Algorithms to Real-time Implementation on the TMS320C66x SoC is a rare and much-needed source of information for undergraduates and postgraduates in the field that allows them to make real-time

applications work in a relatively short period of time. It is also incredibly beneficial to hardware and software engineers involved in programming real-time embedded systems.

Real-Time Digital Signal Processing - Nasser Kehtarnavaz 2011-03-15
Digital Signal Processing has undergone enormous growth in usage/implementation in the last 20 years and many engineering schools are now offering real-time DSP courses in their undergraduate curricula. Our everyday lives involve the use of DSP systems in things such as cell phones and high-speed modems; Texas Instruments has introduced the TMS320C6000 DSP processor family to meet the high performance demands of today's signal processing applications. This book provides the know-how for the implementation and optimization of computationally intensive signal processing algorithms on the Texas Instruments family of TMS320C6000 DSP processors. It is organized in such a way that it can be used as the textbook for DSP lab courses offered at many engineering schools or as a self-study/reference for those familiar with DSP but not this family of processors. This book provides a restructured, modified, and condensed version of the information in more than twenty TI manuals so that one can learn real-time DSP implementations on the C6000 family in a structured course, within one semester. Each chapter is followed by an appropriate lab exercise to provide the hands-on lab material for implementing appropriate signal processing functions. Each chapter is followed by an appropriate lab exercise Provides the hands-on lab material for implementing appropriate signal processing functions

Embedded Image Processing on the TMS320C6000TM DSP - Shehrzad Qureshi 2006-07-20

This is an application-oriented book includes debugged & efficient C implementations of real-world algorithms, in a variety of languages/environments, offering unique coverage of embedded image processing. covers TI technologies and applies them to an important market (important: features the C6416 DSK) Also covers the EVM should not be lost, especially the C6416 DSK, a much more recent DSP. Algorithms treated here are frequently missing from other image processing texts, in particular Chapter 6 (Wavelets), moreover, efficient fixed-point implementations of wavelet-based algorithms also treated. Provide numerous Visual Studio .NET 2003 C/C++ code, that show how to use MFC, GDI+, and the Intel IPP library to prototype image processing applications

A Project Manager's Book of Forms - Cynthia Snyder Dionisio 2017-11-21

Essential project management forms aligned to the PMBOK® Guide—Sixth Edition A Project Manager's Book of Forms is an essential companion to the Project Management Institute's A Guide to the Project Management Body of Knowledge. Packed with ready-made forms for managing every stage in any project, this book offers both new and experienced project managers an invaluable resource for thorough documentation and repeatable processes. Endorsed by PMI and aligned with the PMBOK® Guide, these forms cover all aspects of initiating, planning, executing, monitoring and controlling, and closing; each form can be used as-is directly from the book, or downloaded from the companion website and tailored to your project's unique needs. This new third edition has been updated to align with the newest PMBOK® Guide, and includes forms for agile, the PMI Talent Triangle, technical project management, leadership, strategic and business management, and more. The PMBOK® Guide is the primary reference for project management, and the final authority on best practices—but implementation can quickly become complex for new managers on large projects, or even experienced managers juggling multiple projects with multiple demands. This book helps you stay organized and on-track, helping you ensure thorough documentation throughout the project life cycle. Adopt PMI-endorsed forms for documenting every process group Customize each form to suit each project's specific needs Organize project data and implement a repeatable management process Streamline PMBOK® Guide implementation at any level of project management experience Instead of wasting time interpreting and translating the PMBOK® Guide to real-world application, allow PMI to do the work for you: A Project Manager's Book of Forms provides the PMBOK®-aligned forms you need to quickly and easily implement project management concepts and practices.

Mathematical Statistics: Exercises and Solutions - Jun Shao 2006-06-26

The exercises are grouped into seven chapters with titles matching those in the author's Mathematical Statistics. Can also be used as a stand-alone because exercises and solutions are comprehensible independently

of their source, and notation and terminology are explained in the front of the book. Suitable for self-study for a statistics Ph.D. qualifying exam. **Semiconductor Optical Amplifiers and mm-Wave Wireless Links for Converged Access Networks** - Koenig, Swen 2014-11-20

Introduction to Fiber-Optic Communications - Hongqing Hui 2019-09-15
Introduction to Fiber-Optic Communications provides students with the most up-to-date, comprehensive coverage of modern optical fiber communications and applications, striking a fine balance between theory and practice that avoids excessive mathematics and derivations. Unlike other textbooks currently available, this book covers all of the important recent technologies and developments in the field, including electro-optic modulators, coherent optical systems, and silicon integrated photonic circuits. Filled with practical, relevant worked examples and exercise problems, the book presents complete coverage of the topics that optical and communications engineering students need to be successful. From principles of optical and optoelectronic components, to optical transmission system design, and from conventional optical fiber links, to more useful optical communication systems with advanced modulation formats and high-speed DSP, this book covers the necessities on the topic, even including today's important application areas of passive optical networks, datacenters and optical interconnections. Covers fiber-optic communication system fundamentals, design rules and terminologies Provides students with an understanding of the physical principles and characteristics of passive and active fiber-optic components Teaches students how to perform fiber-optic system design, performance evaluation and troubleshooting Includes modern advances in modulation and decoding strategies

DSP Software Development Techniques for Embedded and Real-Time Systems - Robert Oshana 2006-01-09

Today's embedded and real-time systems contain a mix of processor types: off-the-shelf microcontrollers, digital signal processors (DSPs), and custom processors. The decreasing cost of DSPs has made these sophisticated chips very attractive for a number of embedded and real-time applications, including automotive, telecommunications, medical imaging, and many others—including even some games and home appliances. However, developing embedded and real-time DSP applications is a complex task influenced by many parameters and issues. DSP Software Development Techniques for Embedded and Real-Time Systems is an introduction to DSP software development for embedded and real-time developers giving details on how to use digital signal processors efficiently in embedded and real-time systems. The book covers software and firmware design principles, from processor architectures and basic theory to the selection of appropriate languages and basic algorithms. The reader will find practical guidelines, diagrammed techniques, tool descriptions, and code templates for developing and optimizing DSP software and firmware. The book also covers integrating and testing DSP systems as well as managing the DSP development effort. Digital signal processors (DSPs) are the future of microchips! Includes practical guidelines, diagrammed techniques, tool descriptions, and code templates to aid in the development and optimization of DSP software and firmware

Real-time Digital Signal Processing for Software-defined Optical Transmitters and Receivers - Schmogrow, Rene Marcel 2014-11-21

Real-Time Digital Signal Processing - Sen M. Kuo 2006-05-01
Real-time Digital Signal Processing: Implementations and Applications has been completely updated and revised for the 2nd edition and remains the only book on DSP to provide an overview of DSP theory and programming with hands-on experiments using MATLAB, C and the newest fixed-point processors from Texas Instruments (TI).

Uncertain Values Stefan Riedener 2021-10-25

Die neue Reihe Ideen&Argumente ist dem Ideal einer pluralistischen und offenen Argumentationskultur verpflichtet und präsentiert in solider Ausstattung Themen und Fragestellungen, die inhaltlich oder methodisch wichtige Beiträge zur zeitgenössischen Philosophie leisten. Die Publikationen sollen die Vorzüge angelsächsischer und kontinentaler Philosophietraditionen in ein produktives Zusammenspiel bringen. Herausragende, systematisch ausgerichtete Originalausgaben und deutsche Erstausgaben aus allen Teilgebieten der Theoretischen und Praktischen Philosophie finden in Ideen&Argumente ihren Platz. Willkommen sind programmatische Monographien jeglicher philosophischer Provenienz. Es gilt, die zeitgenössische Philosophie in ihrer thematischen und methodischen Vielfalt neu zur Geltung zu bringen.

Software-Defined Radio for Engineers - Alexander M. Wyglinski
2018-04-30

Based on the popular Artech House classic, *Digital Communication Systems Engineering with Software-Defined Radio*, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

XVth International Congress on Mathematical Physics - Pavel Exner 2010

The International Congress on Mathematical Physics is the flagship conference in this exciting field. Convening every three years, it gives a survey on the progress achieved in all branches of mathematical physics. It also provides a superb platform to discuss challenges and new ideas. The present volume collects material from the XVth ICMP which was held in Prague, August 2009, and features most of the plenary lectures and invited lectures in topical sessions as well as information on other parts of the congress program. This volume provides a broad coverage of the field of mathematical physics, from dominantly mathematical subjects to particle physics, condensed matter, and application of mathematical physics methods in various areas such as astrophysics and ecology, amongst others.

DSP Implementation Using the TMS320C6000 DSP Platform - Naim Dahnoun 2000

This text is a vital accessory to both students and professionals using the latest TI DSP processors. The DSP processor has become an integral component in a variety of digital communications systems including cellular telephone systems, data modems, and wireless data devices. Texas Instruments recently launched its new line of high-performance DSP processors (the TMS320C6000) which achieve a significant performance improvement over conventional processors. The text is aimed at DSP users who need to implement systems with the new family of high-performance TI processors. It describes the architecture of the processors as well as detailing the associated tools and providing practical examples. Using practical experiments based on common DSP operations, this book enables the reader to make real-time applications work in a relatively short period of time. FEATURES Covers TMS320C62X and TMS320C67X processor hardware Covers both theory and the complete implementation of selected algorithms Uses laboratory experiments to demonstrate and simplify the transition from theory to the full implementation of the TMS320C6201 processor Application software will be regularly updated through the internet

The Electrical Engineering Handbook, Second Edition - Richard C. Dorf 1997-09-26

In 1993, the first edition of *The Electrical Engineering Handbook* set a new standard for breadth and depth of coverage in an engineering reference work. Now, this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today. Every electrical engineer should have an opportunity to expand his expertise with this definitive guide. In a single volume, this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry, government, or academia. This well-organized book is divided into 12 major sections that encompass the entire field of electrical engineering, including circuits, signal processing, electronics, electromagnetics, electrical effects and devices, and energy, and the emerging trends in the fields of communications, digital devices, computer engineering, systems, and biomedical engineering. A compendium of physical, chemical, material, and mathematical data completes this comprehensive resource. Every major topic is thoroughly covered and every important concept is defined, described, and illustrated. Conceptually challenging but carefully explained articles are equally valuable to the practicing

engineer, researchers, and students. A distinguished advisory board and contributors including many of the leading authors, professors, and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field. No other single volume available today offers this combination of broad coverage and depth of exploration of the topics. The *Electrical Engineering Handbook* will be an invaluable resource for electrical engineers for years to come.

Real-time Digital Signal Processing - Sen-Maw Kuo 2003

Communication System Design Using DSP Algorithms - Steven A. Tretter 2012-12-06

Designed for senior electrical engineering students, this textbook explores the theoretical concepts of digital signal processing and communication systems by presenting laboratory experiments using real-time DSP hardware. The experiments are designed for the Texas Instruments TMS320C6701 Evaluation Module or TMS320C6711 DSK but can easily be adapted to other DSP boards. Each chapter begins with a presentation of the required theory and concludes with instructions for performing experiments to implement the theory. In the process of performing the experiments, students gain experience in working with software tools and equipment commonly used in industry.

Microcontroller Programming and Interfacing with Texas Instruments MSP430FR2433 and MSP430FR5994 - Steven F. Barrett 2022-06-01

This book provides a thorough introduction to the Texas Instruments MSP430TM microcontroller. The MSP430 is a 16-bit reduced instruction set (RISC) processor that features ultra-low power consumption and integrated digital and analog hardware. Variants of the MSP430 microcontroller have been in production since 1993. This provides for a host of MSP430 products including evaluation boards, compilers, software examples, and documentation. A thorough introduction to the MSP430 line of microcontrollers, programming techniques, and interface concepts are provided along with considerable tutorial information with many illustrated examples. Each chapter provides laboratory exercises to apply what has been presented in the chapter. The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects. Also, practicing engineers already familiar with another microcontroller, who require a quick tutorial on the microcontroller, will find this book very useful. This second edition introduces the MSP-EXP430FR5994 and the MSP430-EXP430FR2433 LaunchPads. Both LaunchPads are equipped with a variety of peripherals and Ferroelectric Random Access Memory (FRAM). FRAM is a nonvolatile, low-power memory with functionality similar to flash memory.

Guidelines for Achieving Project Management Success - Gary L. Richardson 2021-12-09

This book is designed to be a quick guidelines-oriented approach to the topic of project management. It contains the essential management practices required to produce successful project outcomes. *Guidelines for Achieving Project Management Success* helps the non-technical reader who might have been originally put off by a more robust treatment of project management. It uses the 80/20 rule where 80% of the project management problem may originate from just 20% of the cause. The book includes easy to understand examples illustrating key topics and offers advice and references for further reading. The book also helps the reader on how to define what the target is with the project and how to execute it to get the desired results. The primary audience is individuals who are seeking a readable description of the project management processes. The book is also useful for an academic program where project management is secondary to the primary topic.

Optical Delay Interferometers and Their Application for Self-coherent Detection - Jingshi Li 2014-07-31

Self-coherent receivers are promising candidates for reception of 100 Gbit/s data rates in optical networks. Self-coherent receivers consist of multiple optical delay interferometers (DI) with high-speed photodiodes attached to the outputs. By DSP of the photo currents it becomes possible to receive coherently modulated optical signals. Especially promising for 100 Gbit/s networks is the PolMUX DQPSK format, the self-coherent reception of which is described in detail.

Partial Ordering Methods in Nonlinear Problems - Dajun Guo 2004

Special Interest Categories: Pure and applied mathematics, physics, optimisation and control, mechanics and engineering, nonlinear programming, economics, finance, transportation and elasticity. The usual method used in studying nonlinear problems such as topological method, variational method and others are generally only suited to the

nonlinear problems with continuity and compactness. However, a lots of the problems appeared in theory and applications have no continuity and compactness, For example, differential equations and integral equations in infinite dimensional spaces, various equations defined on unbounded region are generally having no compactness. The problems can be divided into three types as follows: (1) Without using compact conditions but only using some inequalities related to some ordering, the existence and uniqueness of the fixed point for increasing operators, decreasing operators and mixed monotone operators, and the convergence of the iterative sequence are obtained. Also, these results have been used to nonlinear integral equations defined on unbounded regions. (2) Without using continuity conditions but only using a very relaxed weakly compact conditions, some new fixed point theorem of increasing operators are obtained. We have applied these results to nonlinear equations with discontinuous terms. (3) They systemly use the partial ordering methods to nonlinear integro-differential equations (include impulsive type) in Banach space.

An Introduction to Theory and Applications of Quantum Mechanics - Amnon Yariv 2013-01-01

Based on a Cal Tech course, this is an outstanding introduction to formal quantum mechanics for advanced undergraduates in applied physics. The treatment's exploration of a wide range of topics culminates in two eminently practical subjects, the semiconductor transistor and the laser. Each chapter concludes with a set of problems. 1982 edition.

PLL Performance, Simulation and Design - Dean Banerjee 2006-08

This book is intended for the reader who wishes to gain a solid understanding of Phase Locked Loop architectures and their applications. It provides a unique balance between both theoretical perspectives and practical design trade-offs. Engineers faced with real world design problems will find this book to be a valuable reference providing example implementations, the underlying equations that describe synthesizer behavior, and measured results that will improve confidence that the equations are a reliable predictor of system behavior. New material in the Fourth Edition includes partially integrated loop filter implementations, voltage controlled oscillators, and modulation using the PLL.

Computer Performance Evaluation. Modelling Techniques and Tools - Boudewijn R. Haverkort 2003-06-29

This book constitutes the refereed proceedings of the 11th International Conference on Modelling Tools and Techniques for Computer Communication System Performance Evaluation, TOOLS 2000, held in Schaumburg, IL, USA in March 2000. The 21 revised full papers presented were carefully reviewed and selected from a total of 49 submissions. Also included are 15 tool descriptions and one invited paper. The papers are organized in topical sections on queueing network models, optimization in mobile networks, stochastic Petri nets, simulation, formal methods and performance evaluation, and measurement tools and applications.

Multi group Equations for the Description of the Particle Transport in Semiconductor - Martin Galler 2005-08-25

' Deterministic simulation of the particle transport in semiconductor devices is an interesting alternative to the common Monte Carlo approach. In this book, a state-of-the-art technique called the multigroup approach is presented and applied to a variety of transport problems in bulk semiconductors and semiconductor devices. High-field effects as well as hot-phonon phenomena in polar semiconductors are studied in detail. The mathematical properties of the presented numerical method are studied, and the method is applied to simulating the transport of a two-dimensional electron gas formed at a semiconductor heterostructure. Concerning semiconductor device simulation, several diodes and transistors fabricated of silicon and gallium arsenide are investigated. For all of these simulations, the numerical techniques employed are discussed in detail. This unique study of the application of direct methods for semiconductor device simulation provides the interested reader with an indispensable reference on this growing research area. Contents: The Bloch-Boltzmann-Peierls Equations Multigroup Model Equations for Polar Semiconductors Particle Transport in Indium Phosphide Particle Transport in Gallium Arsenide Multigroup Equations for Degenerated Carrier Gases The Two-dimensional Electron Gas The Multigroup-WENO Solver for Semiconductor Device Simulation Simulation of Silicon Devices Simulation of Gallium Arsenide Devices Readership: Researchers in physics, numerical mathematics, semiconductor device engineering and device simulation. Keywords: Bloch-Boltzmann-Peierls Equations; Semiconductor Device Simulation; Multigroup Model Equations; Deterministic Methods

for Boltzmann-like Transport Equations; Polar Semiconductors; MESFET and MOSFET; Hot-Phonon Effects Key Features: Clear presentation of deterministic methods for semiconductor device simulation based on kinetic theory Lots of investigated transport problems in semiconductors given Extensive use of graphs and diagrams to present results Reviews: "As a whole, the monograph leaves a good impression. It can be recommended to a wide range of researchers, from specialists in mathematical modeling to beginners." Mathematical Reviews'

The DSP Handbook - Andrew Bateman 2002

Digital Signal Processing Design, Applications, Design & Implementation, provides the reader with the training, the tools and the building blocks necessary to assess and then unlock the potential of DSP in their own products and services. Bateman and Paterson-Stephens have set out to accomplish this in a manner that is both easy to digest, simple to navigate, and uniquely 'hands on'. No other DSP text on the market has the breadth of real time examples, graphical visualisation, or practical algorithm libraries (ToolBoxes) to be found here. The balance of the book is towards a descriptive and visual explanation of the subject matter. Mathematical analysis is provided, where appropriate, in a concise and manageable format. For Further learning resources in this area please visit: <http://www.dspstore.com/>

Proceedings of the Annual Meeting - American Society for Engineering Education 1988

Geometric Modeling for Scientific Visualization - Guido Brunnett 2013-04-17

Geometric Modeling and Scientific Visualization are both established disciplines, each with their own series of workshops, conferences and journals. But clearly both disciplines overlap; this observation led to the idea of composing a book on Geometric Modeling for Scientific Visualization.

Microcontroller Programming and Interfacing with Texas Instruments MSP430FR2433 and MSP430FR5994 - Part I - Steven F. Barrett 2019-08-27

This book provides a thorough introduction to the Texas Instruments MSP430TM microcontroller. The MSP430 is a 16-bit reduced instruction set (RISC) processor that features ultra-low power consumption and integrated digital and analog hardware. Variants of the MSP430 microcontroller have been in production since 1993. This provides for a host of MSP430 products including evaluation boards, compilers, software examples, and documentation. A thorough introduction to the MSP430 line of microcontrollers, programming techniques, and interface concepts are provided along with considerable tutorial information with many illustrated examples. Each chapter provides laboratory exercises to apply what has been presented in the chapter. The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects. Also, practicing engineers already familiar with another microcontroller, who require a quick tutorial on the microcontroller, will find this book very useful. This second edition introduces the MSP-EXP430FR5994 and the MSP430-EXP430FR2433 LaunchPads. Both LaunchPads are equipped with a variety of peripherals and Ferroelectric Random Access Memory (FRAM). FRAM is a nonvolatile, low-power memory with functionality similar to flash memory.

Securing the Vote - National Academies of Sciences, Engineering, and Medicine 2018-09-30

During the 2016 presidential election, America's election infrastructure was targeted by actors sponsored by the Russian government. *Securing the Vote: Protecting American Democracy* examines the challenges arising out of the 2016 federal election, assesses current technology and standards for voting, and recommends steps that the federal government, state and local governments, election administrators, and vendors of voting technology should take to improve the security of election infrastructure. In doing so, the report provides a vision of voting that is more secure, accessible, reliable, and verifiable.

Cloud Control Systems Magdi S. Mahmoud 2020-01-14

Cloud Control Systems: Analysis, Design and Estimation introduces readers to the basic definitions and various new developments in the growing field of cloud control systems (CCS). The book begins with an overview of cloud control systems (CCS) fundamentals, which will help beginners to better understand the depth and scope of the field. It then discusses current techniques and developments in CCS, including event-triggered cloud control, predictive cloud control, fault-tolerant and diagnosis cloud control, cloud estimation methods, and secure control/estimation under cyberattacks. This book benefits all researchers

including professors, postgraduate students and engineers who are interested in modern control theory, robust control, multi-agents control. Offers insights into the innovative application of cloud computing principles to control and automation systems Provides an overview of cloud control systems (CCS) fundamentals and introduces current techniques and developments in CCS Investigates distributed denial of service attacks, false data injection attacks, resilient design under cyberattacks, and safety assurance under stealthy cyberattacks

Power Laws - Iddo Eliazar 2020-01-03

This monograph is a comprehensive and cohesive exposition of power-

law statistics. Following a bottom-up construction from a foundational bedrock - the power Poisson process - this monograph presents a unified study of an assortment of power-law statistics including: Pareto laws, Zipf laws, Weibull and Fréchet laws, power Lorenz curves, Lévy laws, power Newcomb-Benford laws, sub-diffusion and super-diffusion, and $1/f$ and flicker noises. The bedrock power Poisson process, as well as the assortment of power-law statistics, are investigated via diverse perspectives: structural, stochastic, fractal, dynamical, and socioeconomic. This monograph is poised to serve researchers and practitioners - from various fields of science and engineering - that are engaged in analyses of power-law statistics.