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Engineering: Modeling and Simulation - Jaxon Wheeler 2020-09-15

The use of scientific principles to design and build structures, machines and other things such as bridges, roads, buildings, and vehicles is

known as engineering. It uses modeling and simulation as a substitute for the physical examination. This involves using a computer to calculate the results of a physical phenomenon. A mathematical model is built by a computer

which contains all the parameters of the physical model and represents it virtually. Simulation is an imitation of the operation of a process and system. It is used in various contexts such as simulation of technology for the optimization of performance, safety engineering, testing and video games. This book discusses the fundamentals as well as modern approaches to modeling and simulation in engineering. It presents researches and studies performed by experts across the globe. This book will serve as a valuable source of reference for graduate and post graduate students.

Advanced Informatics for Computing

Research - Ashish Kumar Luhach 2019-09-16

This two-volume set (CCIS 1075 and CCIS 1076) constitutes the refereed proceedings of the Third International Conference on Advanced Informatics for Computing Research, ICAICR 2019, held in Shimla, India, in June 2019. The 78 revised full papers presented were carefully reviewed and selected from 382 submissions.

The papers are organized in topical sections on computing methodologies; hardware; information systems; networks; software and its engineering.

Molecular and Nano Electronics: Analysis, Design and Simulation - Jorge M. Seminario
2006-10-24

The aim of Molecular and Nano Electronics: Analysis, Design and Simulation is to draw together contributions from some of the most active researchers in this new field in order to illustrate a theory guided-approach to the design of molecular and nano-electronics. The field of molecular and nano-electronics has driven solutions for a post microelectronics era, where microelectronics dominate through the use of silicon as the preferred material and photolithography as the fabrication technique to build binary devices (transistors). The construction of such devices yields gates that are able to perform Boolean operations and can be combined with computational systems, capable

of storing, processing, and transmitting digital signals encoded as electron currents and charges. Since the invention of the integrated circuits, microelectronics has reached increasing performances by decreasing strategically the size of its devices and systems, an approach known as scaling-down, which simultaneously allow the devices to operate at higher speeds. *

Provides a theory-guided approach to the design of molecular and nano-electronics *

Includes solutions for researchers working in this area *

Contributions from some of the most active researchers in the field of nano-electronics

Neuromorphic Circuits for Nanoscale Devices - Pinaki Mazumder 2019-02-20

Nanoscale devices attracted significant research effort from the industry and academia due to their operation principals being based on different physical properties which provide advantages in the design of certain classes of circuits over conventional CMOS transistors.

Neuromorphic Circuits for Nanoscale Devices

contains recent research papers presented in various international conferences and journals to provide insight into how the operational principles of the nanoscale devices can be utilized for the design of neuromorphic circuits for various applications of non-volatile memory, neural network training/learning, and image processing. The topics discussed in the book include: Nanoscale Crossbar Memory Design Q-Learning and Value Iteration using Nanoscale Devices Image Processing and Computer Vision Applications for Nanoscale Devices Nanoscale Devices-based Cellular Nonlinear/Neural Networks

Advances in Fractional Calculus - J. Sabatier 2007-07-28

In the last two decades, fractional (or non integer) differentiation has played a very important role in various fields such as mechanics, electricity, chemistry, biology, economics, control theory and signal and image processing. For example, in the last three fields,

some important considerations such as modelling, curve fitting, filtering, pattern recognition, edge detection, identification, stability, controllability, observability and robustness are now linked to long-range dependence phenomena. Similar progress has been made in other fields listed here. The scope of the book is thus to present the state of the art in the study of fractional systems and the application of fractional differentiation. As this volume covers recent applications of fractional calculus, it will be of interest to engineers, scientists, and applied mathematicians.

Digital Television in Europe - Wendy Van den Broeck 2008

Electronic Communication Systems - Frank R. Dungan 1998-01-01

From basic concepts to the latest technologies, Electronic Communications Systems has proven successful for the introductory Communications student. Now better than ever, Dungan's

Electronic Communications Systems, Third Edition has maintained all the features that have made it so popular for future technicians. The revision keeps it easy-to-read style and broad, up-to-date coverage. ALSO AVAILABLE Lab Manual ISBN: 0-8273-8629-X INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER Instructor's Guide, ISBN: 0-8273-8625-7 Instructor's Resource Guide, ISBN: 0-8273-8630-3

Kotlin Development for Beginners - Michael Fordham 2017-07-12

Learn the basics of Kotlin development in this easy-to-follow, quick tutorial guide. You will learn from the ground up how to use variables, loops, arrays and even take input from a user. You can be inspired from the code examples to create your own programs and games in this new programming language, which has now been given first-class status as a programming language for Android app development by Google. Through the course of this guide you will

learn the building blocks of the most important aspects of the Kotlin language, as well as seeing real, functional code that you can use in your programs. The guide focuses on keeping things short and sweet, meaning you can read it quickly, without any waffle. Whether you are new to programming or a master of Java, you will gain useful knowledge and experience of Kotlin development with this guide. You will be informed of the tools you are required to use in order to program along at home, so you can get hands on quickly with Kotlin code. So, what are you waiting for? It's time to start programming in Kotlin. Want to learn how to make Android apps with Kotlin? Check out my other book on Amazon: Kotlin Development for Android (Create Your Own App) - bit.ly/kotlin-android-book

On the Mathematical Modeling of Memristor, Memcapacitor, and

Meminductor - Ahmed G. Radwan 2016-10-09

This book introduces the basic fundamentals, models, emulators and analyses of mem-

elements in the circuit theory with applications. The book starts reviewing the literature on mem-elements, models and their recent applications. It presents mathematical models, numerical results, circuit simulations, and experimental results for double-loop hysteresis behavior of mem-elements. The authors introduce a generalized memristor model in the fractional-order domain under different input and different designs for emulator-based mem-elements, with circuit and experimental results. The basic concept of memristive-based relaxation-oscillators in the circuit theory is also covered. The reader will moreover find in this book information on memristor-based multi-level digital circuits, memristor-based multi-level multiplier and memcapacitor-based oscillators and synaptic circuits.

The Digital Dividend of Terrestrial

Broadcasting - Roland Beutler 2011-11-25

The “digital revolution” of the last two decades has pervaded innumerable aspects of our daily

lives and changed our planet irreversibly. The shift from analog to digital broadcasting has facilitated a seemingly infinite variety of new applications—audience interactivity being but one example. The greater efficiency and compression of digital media have endowed broadcasters with a “digital dividend” of spare transmission capacity over and above the requirements of terrestrial broadcasting. The question is, who will use it, and how? Comparing the European experience with that of broadcasters elsewhere in the world, the author sketches the current status of international frequency management, quantifies the value of the “dividend” itself, analyzes the details of the analog-to-digital switchovers already completed, and posits what the future holds for the sector. As we grapple with new devices, inconceivable a mere generation ago, that allow us to access digital media instantly, anywhere and at any time of day, this book is a potent reminder that what we have witnessed so far may be just the

first wavering steps along a road whose destination we can only guess at.

Multimedia Networking - Jenq-Neng Hwang
2009-04-16

This authoritative guide to multimedia networking balances just the right amount of theory with practical design and integration knowledge.

X86 Instruction Set Architecture - Tom Shanley
2009-11

Radar Automatic Target Recognition (ATR) and Non-Cooperative Target Recognition (NCTR) - David Blacknell
2013-08-23

The ability to detect and locate targets by day or night, over wide areas, regardless of weather conditions has long made radar a key sensor in many military and civil applications. However, the ability to automatically and reliably distinguish different targets represents a difficult challenge. Radar Automatic Target Recognition (ATR) and Non-Cooperative Target

Recognition (NCTR) captures material presented in the NATO SET-172 lecture series to provide an overview of the state-of-the-art and continuing challenges of radar target recognition.

Data Traffic Monitoring and Analysis - Ernst Biersack 2013-03-02

This book was prepared as the Final Publication of COST Action IC0703 "Data Traffic Monitoring and Analysis: theory, techniques, tools and applications for the future networks". It contains 14 chapters which demonstrate the results, quality, and the impact of European research in the field of TMA in line with the scientific objective of the Action. The book is structured into three parts: network and topology measurement and modelling, traffic classification and anomaly detection, quality of experience.

Estimation and Compensation of IQ Imbalance in Broadband Communications Receivers - Marcus Windisch 2007

Contemporary Computing - Sanjay Ranka 2009-08-19

This book constitutes the refereed papers of the 2nd International Conference on Contemporary Computing, which was held in Noida (New Delhi), India, in August 2009. The 61 revised full papers presented were carefully reviewed and selected from 213 submissions and focus on topics that are of contemporary interest to computer and computational scientists and engineers. The papers are organized in topical sections on Algorithms, Applications, Bioinformatics, and Systems.

Geosynchronous SAR: System and Signal Processing - Teng Long 2019-02-01

This book chiefly addresses the analysis and design of geosynchronous synthetic aperture radar (GEO SAR) systems, focusing on the algorithms, analysis, methods used to compensate for ionospheric influences, and validation experiments for Global Navigation Satellite Systems (GNSS). Further, it

investigates special problems in the GEO SAR context, such as curved trajectories, the Earth's rotation, the 'non-stop-and-go' model, high-order Doppler parameters, temporal-variant ionospheric errors etc. These studies can also be extended to SAR with very high resolution and long integration time. Given the breadth and depth of its coverage, scientists and engineers in SAR and advanced graduate students in related areas will greatly benefit from this book.

Frontiers in Memristive Materials for Neuromorphic Processing Applications - National Academies of Sciences Engineering and Medicine 2021-09-22

Current von Neumann style computing is energy inefficient and bandwidth limited as information is physically shuttled via electrons between processor, short term non-volatile memory, and long-term storage. Biologically inspired neuromorphic computing, with its inherent autonomous learning capabilities and much lower power requirements based on analog

processing, is seen as an avenue for overcoming these limitations. The development of nanoelectronic memory resistors, or memristors, is essential to neuromorphic architectures as they allow logic-based elements for information processing to be combined directly with nonvolatile memory for efficient emulation of neurons and synapses found in the brain. Memristors are typically composed of a switchable material with nonlinear hysteretic behavior sandwiched between two conducting encoding elements. The design, dynamic control, scaling and fundamental understanding of these materials is essential for establishing memristive devices. To explore the state-of-the-art in the materials fundamentally underlying memristor technologies: their science, their mechanisms and their functional imperatives to realize neuromorphic computing machines, the National Academies of Sciences, Engineering, and Medicine's Board on Physics and Astronomy convened a workshop on February 28, 2020.

This publication summarizes the presentation and discussion of the workshop.

Electromechanical Systems, Electric Machines, and Applied Mechatronics - Sergey Edward Lyshevski 2018-02-06

Recent trends in engineering show increased emphasis on integrated analysis, design, and control of advanced electromechanical systems, and their scope continues to expand.

Mechatronics—a breakthrough concept—has evolved to attack, integrate, and solve a variety of emerging problems in engineering, and there appears to be no end to its application. It has become essential for all engineers to understand its basic theoretical standpoints and practical applications. *Electromechanical Systems, Electric Machines, and Applied Mechatronics* presents a unique combination of traditional engineering topics and the latest technologies, integrated to stimulate new advances in the analysis and design of state-of-the-art electromechanical systems. With a focus on

numerical and analytical methods, the author develops the rigorous theory of electromechanical systems and helps build problem-solving skills. He also stresses simulation as a critical aspect of developing and prototyping advanced systems. He uses the MATLABTM environment for his examples and includes a MATLABTM diskette with the book, thus providing a solid introduction to this standard engineering tool. Readable, interesting, and accessible, *Electromechanical Systems, Electric Machines, and Applied Mechatronics* develops a thorough understanding of the integrated perspectives in the design and analysis of electromechanical systems. It covers the basic concepts in mechatronics, and with numerous worked examples, prepares the reader to use the results in engineering practice. Readers who master this book will know what they are doing, why they are doing it, and how to do it.

Proceedings of ICRIC 2019 - Pradeep Kumar

Singh 2019-11-21

This book presents high-quality, original contributions (both theoretical and experimental) on software engineering, cloud computing, computer networks & internet technologies, artificial intelligence, information security, and database and distributed computing. It gathers papers presented at ICRIC 2019, the 2nd International Conference on Recent Innovations in Computing, which was held in Jammu, India, in March 2019. This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies, AI and machine learning, cloud-based e-Learning and big data, security and privacy, image processing and computer vision, and next-generation computing technologies.

Android Development with Kotlin - Marcin Moskala 2017-08-30

Learn how to make Android development much

faster using a variety of Kotlin features, from basics to advanced, to write better quality code. About This Book Leverage specific features of Kotlin to ease Android application development Write code based on both object oriented and functional programming to build robust applications Filled with various practical examples so you can easily apply your knowledge to real world scenarios Identify the improved way of dealing with common Java patterns Who This Book Is For This book is for developers who have a basic understanding of Java language and have 6-12 months of experience with Android development and developers who feel comfortable with OOP concepts. What You Will Learn Run a Kotlin application and understand the integration with Android Studio Incorporate Kotlin into new/existing Android Java based project Learn about Kotlin type system to deal with null safety and immutability Define various types of classes and deal with properties Define collections and

transform them in functional way Define extensions, new behaviours to existing libraries and Android framework classes Use generic type variance modifiers to define subtyping relationship between generic types Build a sample application In Detail Nowadays, improved application development does not just mean building better performing applications. It has become crucial to find improved ways of writing code. Kotlin is a language that helps developers build amazing Android applications easily and effectively. This book discusses Kotlin features in context of Android development. It demonstrates how common examples that are typical for Android development, can be simplified using Kotlin. It also shows all the benefits, improvements and new possibilities provided by this language. The book is divided in three modules that show the power of Kotlin and teach you how to use it properly. Each module present features in different levels of advancement. The first module covers Kotlin

basics. This module will lay a firm foundation for the rest of the chapters so you are able to read and understand most of the Kotlin code. The next module dives deeper into the building blocks of Kotlin, such as functions, classes, and function types. You will learn how Kotlin brings many improvements to the table by improving common Java concepts and decreasing code verbosity. The last module presents features that are not present in Java. You will learn how certain tasks can be achieved in simpler ways thanks to Kotlin. Through the book, you will learn how to use Kotlin for Android development. You will get to know and understand most important Kotlin features, and how they can be used. You will be ready to start your own adventure with Android development with Kotlin.

Instrumentation and Measurement in Electrical Engineering - Roman Malaric 2011
The inclusion of an electrical measurement course in the undergraduate curriculum of

electrical engineering is important in forming the technical and scientific knowledge of future electrical engineers. This book explains the basic measurement techniques, instruments, and methods used in everyday practice. It covers in detail both analogue and digital instruments, measurements errors and uncertainty, instrument transformers, bridges, amplifiers, oscilloscopes, data acquisition, sensors, instrument controls and measurement systems. The reader will learn how to apply the most appropriate measurement method and instrument for a particular application, and how to assemble the measurement system from physical quantity to the digital data in a computer. The book is primarily intended to cover all necessary topics of instrumentation and measurement for students of electrical engineering, but can also serve as a reference for engineers and practitioners to expand or refresh their knowledge in this field.

Digital Terrestrial Broadcasting Networks -

Roland Beutler 2008-12-10

Digital Terrestrial Broadcasting Networks approaches the existing framework for digital terrestrial broadcasting, particularly the results of the Regional Radiocommunication Conference held in 2006. That conference established a new frequency plan for Europe, Africa and parts of Asia for digital terrestrial broadcasting. The book introduces the currently existing terrestrial broadcasting systems as well as the regulatory framework by which they can begin operating. Most importantly the book explains details of the GE06 Agreement, particularly Articles 4 and 5. It also discusses the frequency plan itself and the constraints it has been derived under. The book addresses the implementation of the GE06 Plan, which leads directly to all issues related to network planning and optimization of networks. Finally, the future development of the Plan and the digital dividend is addressed. This covers issues like sharing the UHF spectrum with mobile communication services and also touches

upon the World Radio Conference 07 to be held in the fall in Geneva.

Chaotic Modelling and Simulation - Christos H. Skiadas 2008-10-20

Offers Both Standard and Novel Approaches for the Modeling of Systems Examines the Interesting Behavior of Particular Classes of Models Chaotic Modelling and Simulation: Analysis of Chaotic Models, Attractors and Forms presents the main models developed by pioneers of chaos theory, along with new extensions and variations of these models. Using more than 500 graphs and illustrations, the authors show how to design, estimate, and test an array of models. Requiring little prior knowledge of mathematics, the book focuses on classical forms and attractors as well as new simulation methods and techniques. Ideas clearly progress from the most elementary to the most advanced. The authors cover deterministic, stochastic, logistic, Gaussian, delay, Hénon, Holmes, Lorenz, Rössler, and rotation models.

They also look at chaotic analysis as a tool to design forms that appear in physical systems; simulate complicated and chaotic orbits and paths in the solar system; explore the Hénon-Heiles, Contopoulos, and Hamiltonian systems; and provide a compilation of interesting systems and variations of systems, including the very intriguing Lotka-Volterra system. Making a complex topic accessible through a visual and geometric style, this book should inspire new developments in the field of chaotic models and encourage more readers to become involved in this rapidly advancing area.

Inverse Synthetic Aperture Radar Imaging - Victor C. Chen 2014-09

This book is based on the latest research on ISAR imaging of moving targets and non-cooperative target recognition (NCTR). With a focus on the advances and applications, it provides readers with a working knowledge of various algorithms of ISAR imaging of targets and implementation with MATLAB.

Micro-Electronics and Telecommunication Engineering - Devendra Kumar Sharma

2021-05-28

This book presents selected papers from the 4th International Conference on Micro-Electronics and Telecommunication Engineering, held at SRM Institute of Science and Technology, Ghaziabad, India, during 26-27 September 2020. It covers a wide variety of topics in micro-electronics and telecommunication engineering, including micro-electronic engineering, computational remote sensing, computer science and intelligent systems, signal and image processing, and information and communication technology.

Erbium-Doped Fiber Amplifiers - Emmanuel Desurvire 2002-08-19

PRAISE FOR Erbium-Doped Fiber Amplifiers: Principles and Applications "The book is an indispensable reference for researchers, development engineers, and system designers in fiber-optic communications.... It will excel as an

introductory text in upper-level undergraduate and graduate courses on system applications of fiber optics." --Optik "One of the most comprehensive and detailed accounts of the physics and fundamental principles of erbium-doped fiber amplifiers.... I do not hesitate to recommend the book enthusiastically to anyone having an interest in EDFAs and their applications." --Physics Today Erbium-doped fiber amplifiers are an important technology for lightwave voice, video, and data transmission. The passage of the 1996 Telecommunications Act and the growth of the Internet have sparked intense demand for expanded bandwidth in all network layers, resulting in significant advances in Erbium-Doped Fiber Amplifier (EDFA) technology. This two-volume set combines Erbium-Doped Fiber Amplifiers: Principles and Applications, an important exploration of the then-infant technology of erbium-doped fiber amplifiers, and Erbium-Doped Fiber Amplifiers: Device and System Developments, a new volume

designed to expand the reader's conceptual understanding of EDFAs and cover the developmental issues of EDFAs that are relevant to modern telecom applications. *Erbium-Doped Fiber Amplifiers: Principles and Applications* illuminates such key areas as:

- * Modeling light amplification in Er-doped single-mode fibers
- * Fundamentals of noise in optical fiber amplifiers
- * Photodetection of optically amplified signals
- * Spectroscopic properties of erbium glass fibers
- * Gain, saturation, and noise characteristics of EDFAs
- * Device and system applications of EDFAs

Erbium-Doped Fiber Amplifiers: Devices and Developments reviews

- * New aspects in EDFA modeling, including the standard confined-doping, the transcendental-power-equation, and average-inversion-level models
- * Design concepts for EDFAs in terrestrial and submarine WDM systems
- * Transmission fiber design and dispersion-management techniques for terabit/s systems
- * Amplified submarine-cable systems, including a

brief history of submarine-cable communications and the investigation of terabit/s system technologies

- * Advanced concepts in the physics of noise in amplified light, noise figure definitions, entropy, and ultimate capacity limits
- * Delving into fundamental concepts (including a wealth of previously unpublished materials) as well as important breakthroughs, this much-needed resource will place telecom engineers in a position to take advantage of every aspect in the broad potential of EDFAs. Together, this set sheds light on many new frontiers of knowledge, such as inhomogeneous modeling and nonlinear photon statistics, and demonstrates the many broadening benefits of EDFAs, including their polarization insensitivity, temperature stability, quantum-limited noise figure, and immunity to interchannel crosstalk.

Advances in Intelligent Systems - Francesco Carlo Morabito 1997

Intelligent Systems can be defined as systems whose design, mainly based on computational

techniques, is supported, in some parts, by operations and processing skills inspired by human reasoning and behaviour. Intelligent Systems must typically operate in a scenario in which non-linearities are the rule and not as a disturbing effect to be corrected. Finally, Intelligent Systems also have to incorporate advanced sensory technology in order to simplify man-machine interactions. Several algorithms are currently the ordinary tools of Intelligent Systems. This book contains a selection of contributions regarding Intelligent Systems by experts in diverse fields. Topics discussed in the book are: Applications of Intelligent Systems in Modelling and Prediction of Environmental Changes, Cellular Neural Networks for NonLinear Filtering, NNs for Signal Processing, Image Processing, Transportation Intelligent Systems, Intelligent Techniques in Power Electronics, Applications in Medicine and Surgery, Hardware Implementation and Learning of NNs.

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.

Mem-elements for Neuromorphic Circuits with Artificial Intelligence Applications - Christos Volos 2021-07-01

Mem-elements for Neuromorphic Circuits with

Artificial Intelligence Applications illustrates recent advances in the field of mem-elements (memristor, memcapacitor, meminductor) and their applications in nonlinear dynamical systems, computer science, analog and digital systems, and in neuromorphic circuits and artificial intelligence. The book is mainly devoted to recent results, critical aspects and perspectives of ongoing research on relevant topics, all involving networks of mem-elements devices in diverse applications. Sections contribute to the discussion of memristive materials and transport mechanisms, presenting various types of physical structures that can be fabricated to realize mem-elements in integrated circuits and device modeling. As the last decade has seen an increasing interest in recent advances in mem-elements and their applications in neuromorphic circuits and artificial intelligence, this book will attract researchers in various fields. Covers a broad range of interdisciplinary topics between

mathematics, circuits, realizations, and practical applications related to nonlinear dynamical systems, nanotechnology, analog and digital systems, computer science and artificial intelligence Presents recent advances in the field of mem-elements (memristor, memcapacitor, meminductor) Includes interesting applications of mem-elements in nonlinear dynamical systems, analog and digital systems, neuromorphic circuits, computer science and artificial intelligence

Linux Cookbook - Carla Schroder 2004-11-29

This unique and valuable collection of tips, tools, and scripts provides clear, concise, hands-on solutions that can be applied to the challenges facing anyone running a network of Linux servers from small networks to large data centers in the practical and popular problem-solution-discussion O'Reilly cookbook format. The Linux Cookbook covers everything you'd expect: backups, new users, and the like. But it also covers the non-obvious information that is often

ignored in other books the time-sinks and headaches that are a real part of an administrator's job, such as: dealing with odd kinds of devices that Linux historically hasn't supported well, building multi-boot systems, and handling things like video and audio. The knowledge needed to install, deploy, and maintain Linux is not easily found, and no Linux distribution gets it just right. Scattered information can be found in a pile of man pages, texinfo files, and source code comments, but the best source of information is the experts themselves who built up a working knowledge of managing Linux systems. This cookbook's proven techniques distill years of hard-won experience into practical cut-and-paste solutions to everyday Linux dilemmas. Use just one recipe from this varied collection of real-world solutions, and the hours of tedious trial-and-error saved will more than pay for the cost of the book. But those who prefer to learn hands-on will find that this cookbook not only solves

immediate problems quickly, it also cuts right to the chase pointing out potential pitfalls and illustrating tested practices that can be applied to a myriad of other situations. Whether you're responsible for a small Linux system, a huge corporate system, or a mixed Linux/Windows/MacOS network, you'll find valuable, to-the-point, practical recipes for dealing with Linux systems everyday. The Linux Cookbook is more than a time-saver; it's a sanity saver.

Oscillator Circuits - Yoshifumi Nishio 2016-11-10
This book fills the need for a comprehensive volume on the most recent research on oscillator circuit design, analysis and application. It highlights developments in the analysis of synchronization and wave phenomena, new analytical and design methods and their application, and novel engineering applications of oscillator circuits. Topics covered include various oscillatory circuits and their synchronization; bifurcation analysis of

oscillatory circuits; synchronization phenomena of hysteresis oscillators; recent research on memristor based relaxation oscillators; theory and design of fractional-order oscillators; piecewise-constant oscillators and their applications; multimode oscillations in hard oscillators; wave propagation of phase difference in coupled oscillator arrays; coupled oscillator networks with frustration; fundamental operation and design of high-frequency high-efficiency tuned power oscillator; graph comparison and synchronization in complex networks; experimental studies on networks of coupled chaotic oscillators; ring oscillators and applications in random bit generation; attacking on-chip oscillators. *Oscillator Circuits: Frontiers in Design, Analysis and Applications* is essential reading for researchers, students and designers working in circuit theory, analysis, design and application.

[World Telecommunication Development Report, 2002 - 2002](#)

Compressed Sensing in Radar Signal Processing

- Antonio De Maio 2019-10-17

Learn about the most recent theoretical and practical advances in radar signal processing using tools and techniques from compressive sensing. Providing a broad perspective that fully demonstrates the impact of these tools, the accessible and tutorial-like chapters cover topics such as clutter rejection, CFAR detection, adaptive beamforming, random arrays for radar, space-time adaptive processing, and MIMO radar. Each chapter includes coverage of theoretical principles, a detailed review of current knowledge, and discussion of key applications, and also highlights the potential benefits of using compressed sensing algorithms. A unified notation and numerous cross-references between chapters make it easy to explore different topics side by side. Written by leading experts from both academia and industry, this is the ideal text for researchers, graduate students and industry professionals

working in signal processing and radar.

Fractional Dynamics, Anomalous Transport and Plasma Science - Christos H. Skiadas 2018-12-11

This book collects interrelated lectures on fractal dynamics, anomalous transport and various historical and modern aspects of plasma sciences and technology. The origins of plasma science in connection to electricity and electric charges and devices leading to arc plasma are explored in the first contribution by Jean-Marc Ginoux and Thomas Cuff. The second important historic connection with plasmas was magnetism and the magnetron. Victor J. Law and Denis P. Dowling, in the second contribution, review the history of the magnetron based on the development of thermionic diode valves and related devices. In the third chapter, Christos H Skiadas and Charilaos Skiadas present and apply diffusion theory and solution strategies to a number of stochastic processes of interest. Anomalous diffusion by the fractional Fokker-Planck equation and Lévy stable processes are

studied by Johan Anderson and Sara Moradi in the fourth contribution. They consider the motion of charged particles in a 3-dimensional magnetic field in the presence of linear friction and of a stochastic electric field. Analysis of low-frequency instabilities in a low-temperature magnetized plasma is presented by Dan-Gheorghe Dimitriu, Maricel Agop in the fifth chapter. The authors refer to experimental results of the Innsbruck Q-machine and provide an analytical formulation of the related theory. In chapter six, Stefan Irimiciuc, Dan-Gheorghe Dimitriu, Maricel Agop propose a theoretical model to explain the dynamics of charged particles in a plasma discharge with a strong flux of electrons from one plasma structure to another. The theory and applications of fractional derivatives in many-particle disordered large systems are explored by Z.Z. Alisultanov, A.M. Agalarov, A.A. Potapov, G.B. Ragimkhanov. In chapter eight, Maricel Agop, Alina Gavriluț, and Gabriel Crumpei explore the

motion of physical systems that take place on continuous but non-differentiable curves (fractal curves). Finally in the last chapter S.L. Cherkas and V.L. Kalashnikov consider the perturbations of a plasma consisting of photons, baryons, and electrons in a linearly expanding (Milne-like) universe taking into account the metric tensor and vacuum perturbations.

Smart Trends in Information Technology and Computer Communications - Aynur Unal
2016-12-24

This book constitutes the refereed proceedings of the First International Conference on Smart Trends in Information Technology and Computer Communications, SmartCom 2016, held in Jaipur, India, in August 2016. The 106 revised papers presented were carefully reviewed and selected from 469 submissions. The papers address issues on smart and secure systems; technologies for digital world; data centric approaches; applications for e-agriculture and e-health; products and IT innovations; research for

knowledge computing.

Mastering AutoCAD 2016 and AutoCAD LT 2016 - George Omura 2015-05-11

The bestselling AutoCAD reference, with all new bonus video content Mastering AutoCAD 2016 and AutoCAD LT 2016 is a complete tutorial and reference, helping you design accurately and efficiently while getting the most out of the AutoCAD 2016 software. Concise explanations and focused examples strengthen your understanding of AutoCAD concepts, while step-by-step instruction and hands-on projects help you develop the skills you need for real-world projects. This new edition covers the latest AutoCAD capabilities, and gives you access to videos demonstrating crucial techniques. The companion website provides all of the project files necessary for the tutorials, and features additional video tutorials and other bonus content. You'll start with the basics of AutoCAD drafting, and gradually build your skills to an advanced level as you learn 3D modeling and

imaging. Whether you're preparing for the Autodesk certification or just want to be an AutoCAD guru, this book provides the comprehensive information you need. Get acquainted with the AutoCAD 2016 interface and drafting tools Work with hatches, fields, tables, dynamic blocks, solid fills, and more Build an accurate, scalable 3D model of your design for reference Customize your AutoCAD and integrate it with other software Packed with expert tips, tricks, techniques, and tutorials, Mastering AutoCAD 2016 and AutoCAD LT 2016 is your essential guide to get up to speed quickly.

Computer Security - ESORICS 96 - Italy)

European Symposium on Research in Computer Security 1996 (Rome 1996-09-16

This book constitutes the refereed proceedings of the 4th European Symposium on Research in Computer Security, ESORICS '96, held in Rome, Italy, in September 1996 in conjunction with the 1996 Italian National Computer Conference,

AICA '96. The 21 revised full papers presented in the book were carefully selected from 58 submissions. They are organized in sections on electronic commerce, advanced access control models for database systems, distributed systems, security issues for mobile computing, network security, theoretical foundations of security, and secure database architectures.

Advanced Informatics for Computing Research - Dharm Singh 2017-07-21

This book constitutes the refereed proceedings of the First International Conference on Advanced Informatics for Computing Research , ICAICR 2017, held in Jalandhar, India, in March 2017. The 32 revised full papers presented were carefully reviewed and selected from 312 submissions. The papers are organized in topical sections on computing methodologies, information systems, security and privacy, network services.

Machine Audition: Principles, Algorithms and Systems - Wang, Wenwu 2010-07-31

Machine audition is the study of algorithms and systems for the automatic analysis and understanding of sound by machine. It has recently attracted increasing interest within several research communities, such as signal processing, machine learning, auditory modeling, perception and cognition, psychology, pattern recognition, and artificial intelligence. However, the developments made so far are fragmented within these disciplines, lacking connections and incurring potentially overlapping research activities in this subject area. Machine Audition: Principles, Algorithms and Systems contains advances in algorithmic developments, theoretical frameworks, and experimental research findings. This book is useful for professionals who want an improved understanding about how to design algorithms for performing automatic analysis of audio signals, construct a computing system for understanding sound, and learn how to build advanced human-computer interactive systems.