

Low Power Design Essentials Integrated Circuits And Systems Hardcover April 13 2009

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Design of 3D Integrated Circuits and Systems - Rohit Sharma

2018-09-03

Three-dimensional (3D)

integration of microsystems and subsystems has become essential to the future of semiconductor technology development. 3D

integration requires a greater understanding of several interconnected systems stacked over each other. While this vertical growth profoundly increases the system functionality, it also exponentially increases the

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design complexity. Design of 3D Integrated Circuits and Systems tackles all aspects of 3D integration, including 3D circuit and system design, new processes and simulation techniques, alternative communication schemes for 3D circuits and systems, application of novel materials for 3D systems, and the thermal challenges to restrict power dissipation and improve performance of 3D systems. Containing contributions from experts in industry as well as academia, this authoritative text: Illustrates different 3D integration approaches, such as die-to-die, die-to-wafer, and wafer-to-wafer Discusses the use of interposer technology and the role of Through-Silicon Vias (TSVs) Presents the latest improvements in three major fields of thermal management for multiprocessor systems-on-chip (MPSoCs) Explores ThruChip Interface (TCI), NAND flash memory stacking, and emerging

applications Describes large-scale integration testing and state-of-the-art low-power testing solutions Complete with experimental results of chip-level 3D integration schemes tested at IBM and case studies on advanced complementary metal-oxide-semiconductor (CMOS) integration for 3D integrated circuits (ICs), Design of 3D Integrated Circuits and Systems is a practical reference that not only covers a wealth of design issues encountered in 3D integration but also demonstrates their impact on the efficiency of 3D systems.

Yield and Variability Optimization of Integrated Circuits - Jian Cheng Zhang
1995-02-28

Traditionally, Computer Aided Design (CAD) tools have been used to create the nominal design of an integrated circuit (IC), such that the circuit nominal response meets the desired performance specifications. In reality,

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however, due to the disturbances of the IC manufacturing process, the actual performances of the mass produced chips are different than those for the nominal design. Even if the manufacturing process were tightly controlled, so that there were little variations across the chips manufactured, the environmental changes (e. g. those of temperature, supply voltages, etc.) would also make the circuit performances vary during the circuit life span. Process-related performance variations may lead to low manufacturing yield, and unacceptable product quality. For these reasons, statistical circuit design techniques are required to design the circuit parameters, taking the statistical process variations into account. This book deals with some theoretical and practical aspects of IC statistical design, and emphasizes how they differ from those for discrete circuits. It describes a spectrum

of different statistical design problems, such as parametric yield optimization, generalized on-target design, variability minimization, performance tuning, and worst-case design. The main emphasis of the presentation is placed on the principles and practical solutions for performance variability minimization. It is hoped that the book may serve as an introductory reference material for various groups of IC designers, and the methodologies described will help them enhance the circuit quality and manufacturability. The book contains seven chapters.

Design with Operational Amplifiers and Analog Integrated Circuits - Sergio Franco 1998

This text is designed for an applications-oriented course in operational amplifiers or analog circuit design. This new edition includes enhanced pedagogy, updated technology, and increased topical coverage.

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Low Power Design Essentials -

Jan Rabaey 2009-04-21

This book contains all the topics of importance to the low power designer. It first lays the foundation and then goes on to detail the design process. The book also discusses such special topics as power management and modal design, ultra low power, and low power design methodology and flows. In addition, coverage includes projections of the future and case studies.

Engineering - Unesco 2010-01-01

This report reviews engineering's importance to human, economic, social and cultural development and in addressing the UN Millennium Development Goals. Engineering tends to be viewed as a national issue, but engineering knowledge, companies, conferences and journals, all demonstrate that it is as international as science. The report reviews the role of

engineering in development, and covers issues including poverty reduction, sustainable development, climate change mitigation and adaptation. It presents the various fields of engineering around the world and is intended to identify issues and challenges facing engineering, promote better understanding of engineering and its role, and highlight ways of making engineering more attractive to young people, especially women.--Publisher's description.

Operational Amplifiers & Linear

Integrated Circuits - James Fiore
2018

Circuits for Electronic

Instrumentation - T. H. O'Dell
1991-08-30

This book is an up-to-date text on electronic circuit design. The subject is dealt with from an experimental point of view, but this has not restricted the author to well-known or simple circuits.

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Indeed, some very recent and quite advanced circuit ideas are put forward for experimental work. Each chapter takes up a particular type of circuit, and then leads the reader on to gain an understanding of how these circuits work by proposing experimental circuits for the reader to build and make measurements on. This is the first book to take such a practical approach to this level. The book will be useful to final year undergraduates and postgraduates in electronics, practising engineers, and workers in all fields where electronic instrumentation is used and there is a need to understand electronics and the interface between the instrument and the user's own experimental system. The book's references will also be a very helpful guide to the literature.

Computer Organization & Architecture 7e - Stallings
2008-02

Flip-Flop Design in Nanometer CMOS - Massimo Alioto
2014-10-14

This book provides a unified treatment of Flip-Flop design and selection in nanometer CMOS VLSI systems. The design aspects related to the energy-delay tradeoff in Flip-Flops are discussed, including their energy-optimal selection according to the targeted application, and the detailed circuit design in nanometer CMOS VLSI systems. Design strategies are derived in a coherent framework that includes explicitly nanometer effects, including leakage, layout parasitics and process/voltage/temperature variations, as main advances over the existing body of work in the field. The related design tradeoffs are explored in a wide range of applications and the related energy-performance targets. A wide range of existing and recently proposed Flip-Flop

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topologies are discussed. Theoretical foundations are provided to set the stage for the derivation of design guidelines, and emphasis is given on practical aspects and consequences of the presented results. Analytical models and derivations are introduced when needed to gain an insight into the inter-dependence of design parameters under practical constraints. This book serves as a valuable reference for practicing engineers working in the VLSI design area, and as text book for senior undergraduate, graduate and postgraduate students (already familiar with digital circuits and timing).

Charge-Sharing SAR ADCs for Low-Voltage Low-Power Applications - Taimur Rabuske
2016-08-02

This book introduces readers to the potential of charge-sharing (CS) successive approximation register (SAR) analog-to-digital converters (ADCs), while

providing extensive analysis of the factors that limit the performance of the CS topology. The authors present guidelines and useful techniques for mitigating the limitations of the architecture, while focusing on the implementation under restricted power budgets and voltage supplies.

Model Rules of Professional Conduct - American Bar Association. House of Delegates
2007

The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its

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practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

High-Speed Digital System

Design - Anatoly Belous

2019-11-13

This book describes for readers the entire, interconnected complex of theoretical and practical aspects of designing and organizing the production of various electronic devices, the general and main distinguishing feature of which is the high speed of processing and transmitting of digital signals.

The authors discuss all the main stages of design - from the upper system level of the hierarchy (telecommunications system, 5G mobile communications) to the lower level of basic semiconductor elements, printed

circuit boards. Since the developers of these devices in practice deal with distorted digital signals that are transmitted against a background of interference, the authors not only explain the physical nature of such effects, but also offer specific solutions as to how to avoid such parasitic effects, even at the design stage of high-speed devices.

Energy-Aware System Design - Chong-Min Kyung 2011-06-17

Power consumption becomes the most important design goal in a wide range of electronic systems. There are two driving forces towards this trend: continuing device scaling and ever increasing demand of higher computing power. First, device scaling continues to satisfy Moore's law via a conventional way of scaling (More Moore) and a new way of exploiting the vertical integration (More than Moore). Second, mobile and IT convergence requires more

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computing power on the silicon chip than ever. Cell phones are now evolving towards mobile PC. PCs and data centers are becoming commodities in house and a must in industry. Both supply enabled by device scaling and demand triggered by the convergence trend realize more computation on chip (via multi-core, integration of diverse functionalities on mobile SoCs, etc.) and finally more power consumption incurring power-related issues and constraints.

Energy-Aware System Design: Algorithms and Architectures provides state-of-the-art ideas for low power design methods from circuit, architecture to software level and offers design case studies in three fast growing areas of mobile storage, biomedical and security.

Important topics and features: - Describes very recent advanced issues and methods for energy-aware design at each design level from circuit and architecture to

algorithm level, and also covering important blocks including low power main memory subsystem and on-chip network at architecture level - Explains efficient power conversion and delivery which is becoming important as heterogeneous power sources are adopted for digital and non-digital parts - Investigates 3D die stacking emphasizing temperature awareness for better perspective on energy efficiency - Presents three practical energy-aware design case studies; novel storage device (e.g., solid state disk), biomedical electronics (e.g., cochlear and retina implants), and wireless surveillance camera systems. Researchers and engineers in the field of hardware and software design will find this book an excellent starting point to catch up with the state-of-the-art ideas of low power design.

Supply Chain Management -

Sunil Chopra 2010

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'Supply Chain Management' illustrates the key drivers of good supply chain management in order to help students understand what creates a competitive advantage. It also provides strong coverage of analytic skills so that students can gauge the effectiveness of the techniques described.

Nurse Anesthesia E-Book - John J. Nagelhout 2009-02-11

Long respected as the most comprehensive nurse anesthesia resource available, this new edition continues the tradition of bringing together leading experts to create a balanced reference that applies scientific principles to today's clinical anesthesia practice. Inside you'll find a solid introduction to the equipment and patient care techniques unique to nurse anesthesia side-by-side with the cutting-edge research and application of evidence necessary to prepare you for tomorrow. Over 700 tables and boxes highlight the

most essential information in a quick, easy-to-reference format. An easy-to-use organization with basic principles covered first, followed by individual chapters for each surgical specialty, ensures you have the information you need to build your knowledge. Over 650 figures of anatomy, nurse anesthesia procedures, and equipment enhance your understanding of complex information. Expert CRNA authors provide the most up-to-date and relevant clinical information you'll use in daily practice. The latest pharmacology information on pharmacokinetics, drug delivery systems, opiate antagonists, and key induction drugs to keep you up-to-date. Thoroughly updated references make finding the latest and most important research in the field quick and simple. New chapters address legal issues, neonatal anesthesia, anesthesia education, clinical monitoring, regional

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anesthesia, unexpected complications, and more. Expanded coverage of chemistry and physics as well as immunology makes these difficult fundamental topics easier to understand and apply to everyday practice. Over 100 new images enhance your understanding of difficult anesthesia concepts.

Introduction to VLSI Systems -

Carver Mead 1980

Mos devices and circuits -

Integrated system fabrication -

Data and control flow in

systematic structures -

Implementing integrated system designs : from circuit topology to

patterning geometry to wafer

fabrication - Overview of an LSI

computer system, and the design

of the OM2 data PATH CHIP -

Architecture and design of

system controllers, and the

design of the OM2 controller

CHIP - System timing - Highly

concurrent systems - Physics of

computational systems.

Secure System Design and Trustable Computing -

Chip-Hong Chang 2015-09-17

This book provides the foundations for understanding hardware security and trust, which have become major concerns for national security over the past decade. Coverage includes issues related to security and trust in a variety of electronic devices and systems related to the security of hardware, firmware and software, spanning system applications, online transactions and networking services. This serves as an invaluable reference to the state-of-the-art research that is of critical significance to the security of and trust in, modern society's microelectronic-supported infrastructures.

Handbook of Integrated Circuits -

John D. Lenk 1978

Organization Theory and Design

- Jonathan Murphy 2014

Organizing involves continuous

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challenges in the face of uncertainty and change. How is globalization impacting organizations? How will new strategies for a turbulent world affect organizational design? In this second edition of *Organization Theory and Design*, developed for students in the UK, Europe, the Middle East and Africa, respected academics Jonathan Murphy and Hugh Willmott continue to add an international perspective to Richard L. Daft's landmark text. Together they tackle these questions in a comprehensive, clear and accessible study of the subject.

Organizational Culture and Leadership - Edgar H. Schein
2010-07-16

Regarded as one of the most influential management books of all time, this fourth edition of *Leadership and Organizational Culture* transforms the abstract concept of culture into a tool that can be used to better shape the

dynamics of organization and change. This updated edition focuses on today's business realities. Edgar Schein draws on a wide range of contemporary research to redefine culture and demonstrate the crucial role leaders play in successfully applying the principles of culture to achieve their organizational goals.

Strengthening Forensic Science in the United States - National Research Council 2009-07-29

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with

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consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book

provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The Promise of Adolescence - National Academies of Sciences, Engineering, and Medicine
2019-07-26

Adolescenceâ€"beginning with the onset of puberty and ending in the mid-20sâ€"is a critical period of development during which key areas of the brain mature and develop. These changes in brain structure, function, and connectivity mark adolescence as a period of opportunity to discover new vistas, to form relationships with peers and adults, and to explore one's developing identity. It is also a period of resilience that can ameliorate childhood setbacks and set the stage for a thriving trajectory over the life course. Because adolescents comprise nearly one-fourth of the entire

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U.S. population, the nation needs policies and practices that will better leverage these developmental opportunities to harness the promise of adolescence rather than focusing myopically on containing its risks. This report examines the neurobiological and socio-behavioral science of adolescent development and outlines how this knowledge can be applied, both to promote adolescent well-being, resilience, and development, and to rectify structural barriers and inequalities in opportunity, enabling all adolescents to flourish.

The Geography of Transport Systems - Jean-Paul Rodrigue
2013-07-18

Mobility is fundamental to economic and social activities such as commuting, manufacturing, or supplying energy. Each movement has an origin, a potential set of intermediate locations, a

destination, and a nature which is linked with geographical attributes. Transport systems composed of infrastructures, modes and terminals are so embedded in the socio-economic life of individuals, institutions and corporations that they are often invisible to the consumer. This is paradoxical as the perceived invisibility of transportation is derived from its efficiency. Understanding how mobility is linked with geography is main the purpose of this book. The third edition of *The Geography of Transport Systems* has been revised and updated to provide an overview of the spatial aspects of transportation. This text provides greater discussion of security, energy, green logistics, as well as new and updated case studies, a revised content structure, and new figures. Each chapter covers a specific conceptual dimension including networks, modes, terminals, freight transportation,

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urban transportation and environmental impacts. A final chapter contains core methodologies linked with transport geography such as accessibility, spatial interactions, graph theory and Geographic Information Systems for transportation (GIS-T). This book provides a comprehensive and accessible introduction to the field, with a broad overview of its concepts, methods, and areas of application. The accompanying website for this text contains a useful additional material, including digital maps, PowerPoint slides, databases, and links to further reading and websites. The website can be accessed at:

<http://people.hofstra.edu/geotrans>

This text is an essential resource for undergraduates studying transport geography, as well as those interest in economic and urban geography, transport planning and engineering.

CMOS VLSI Design - Neil H. E.

Weste 2006

Democracy and Education - John Dewey 1916

In this book, Dewey tries to criticize and expand on the educational philosophies of Rousseau and Plato. Dewey's ideas were seldom adopted in America's public schools, although a number of his prescriptions have been continually advocated by those who have had to teach in them.

Digital Integrated Circuits - Jan M. Rabaey 1996

Beginning with discussions on the operation of electronic devices and analysis of the nucleus of digital design, the text addresses: the impact of interconnect, design for low power, issues in timing and clocking, design methodologies, and the effect of design automation on the digital design perspective.

Backpacker - 2007-09

Backpacker brings the outdoors

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straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

Radio Frequency Integrated Circuit Design - John W. M.

Rogers 2014-05-14

This newly revised and expanded edition of the 2003 Artech House classic, Radio Frequency Integrated Circuit Design, serves as an up-to-date, practical reference for complete RFIC know-how. The second edition includes numerous updates, including greater

coverage of CMOS PA design, RFIC design with on-chip components, and more worked examples with simulation results. By emphasizing working designs, this book practically transports you into the authors' own RFIC lab so you can fully understand the function of each design detailed in this book. Among the RFIC designs examined are RF integrated LC-based filters, VCO automatic amplitude control loops, and fully integrated transformer-based circuits, as well as image reject mixers and power amplifiers. If you are new to RFIC design, you can benefit from the introduction to basic theory so you can quickly come up to speed on how RFICs perform and work together in a communications device. A thorough examination of RFIC technology guides you in knowing when RFICs are the right choice for designing a communication device. This leading-edge resource is packed

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with over 1,000 equations and more than 435 illustrations that support key topics."

Highly Linear Integrated Wideband Amplifiers - Henrik Sjoland 1999-01-31

Highly Linear Integrated Wideband Amplifiers: Design and Analysis Techniques for Frequencies from Audio to RF deals with the complicated issues involved in the design of high-linearity integrated wideband amplifiers for different operating frequencies. The book demonstrates these principles using a number of high-performance designs. New topologies for high linearity are presented, as well as a novel method for estimating the intermodulation distortion of a wideband signal. One of the most exciting results presented is an enhanced feedback configuration called feedback boosting that is capable of very low distortion. Also important is a statistical method for relating the

intermodulation distortion of a wideband signal to the total harmonic distortion (THD) of a single tone. The THD, as opposed to the intermodulation distortion of the wideband signal, is easy to measure and use as a design parameter. Three different applications where high linearity is needed are identified, namely audio power amplifiers, wideband IF amplifiers and RF power amplifiers. For these applications high-performance integrated amplifier designs using novel topologies are presented together with measurement results. The audio amplifiers are built in CMOS and are capable of driving 80Ω loads directly without using any external components. One of the designs can operate on a supply voltage down to 1.5V. Both bipolar and CMOS wideband IF amplifiers are built; they are fully differential and have linearity from DC to 20 MHz. Finally, an

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RF power amplifier is built in CMOS, without using inductors, in order to investigate what performance can be achieved without them. Highly Linear Integrated Wideband Amplifiers: Design and Analysis Techniques for Frequencies from Audio to RF is an excellent reference for researchers and designers of integrated amplifiers, and may be used as a text for advanced courses on the topic.

Theory of Modeling and Simulation - Bernard P. Zeigler
2000-01-10

The increased computational power and software tools available to engineers have increased the use and dependence on modeling and computer simulation throughout the design process. These tools have given engineers the capability of designing highly complex systems and computer architectures that were previously unthinkable. Every complex design project, from

integrated circuits, to aerospace vehicles, to industrial manufacturing processes requires these new methods. This book fulfills the essential need of system and control engineers at all levels in understanding modeling and simulation. This book, written as a true text/reference has become a standard sr./graduate level course in all EE departments worldwide and all professionals in this area are required to update their skills. The book provides a rigorous mathematical foundation for modeling and computer simulation. It provides a comprehensive framework for modeling and simulation integrating the various simulation approaches. It covers model formulation, simulation model execution, and the model building process with its key activities model abstraction and model simplification, as well as the organization of model libraries. Emphasis of the book is

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in particular in integrating discrete event and continuous modeling approaches as well as a new approach for discrete event simulation of continuous processes. The book also discusses simulation execution on parallel and distributed machines and concepts for simulation model realization based on the High Level Architecture (HLA) standard of the Department of Defense. Presents a working foundation necessary for compliance with High Level Architecture (HLA) standards Provides a comprehensive framework for continuous and discrete event modeling and simulation Explores the mathematical foundation of simulation modeling Discusses system morphisms for model abstraction and simplification Presents a new approach to discrete event simulation of continuous processes Includes parallel and distributed simulation of discrete event

models Presents a concept to achieve simulator interoperability in the form of the DEVS-Bus

Low Power Design

Methodologies - Jan M. Rabaey
2012-12-06

Low Power Design

Methodologies presents the first in-depth coverage of all the layers of the design hierarchy, ranging from the technology, circuit, logic and architectural levels, up to the system layer.

The book gives insight into the mechanisms of power dissipation in digital circuits and presents state of the art approaches to power reduction. Finally, it introduces a global view of low power design methodologies and how these are being captured in the latest design automation environments. The individual chapters are written by the leading researchers in the area, drawn from both industry and academia. Extensive references are included at the end of each

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chapter. Audience: A broad introduction for anyone interested in low power design. Can also be used as a text book for an advanced graduate class. A starting point for any aspiring researcher.

Op Amps for Everyone - Ron Mancini 2003

The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory

and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal

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effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.

Information Security Governance
- Krag Brotby 2009-04-22

The Growing Imperative Need for Effective Information Security Governance With monotonous regularity, headlines announce ever more spectacular failures of information security and mounting losses. The succession of corporate debacles and dramatic control failures in recent years underscores the necessity for information security to be tightly integrated into the fabric of every organization. The protection of an organization's most valuable asset information

can no longer be relegated to low-level technical personnel, but must be considered an essential element of corporate governance that is critical to organizational success and survival. Written by an industry expert, *Information Security Governance* is the first book-length treatment of this important topic, providing readers with a step-by-step approach to developing and managing an effective information security program. Beginning with a general overview of governance, the book covers: The business case for information security Defining roles and responsibilities Developing strategic metrics Determining information security outcomes Setting security governance objectives Establishing risk management objectives Developing a cost-effective security strategy A sample strategy development The steps for implementing an

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effective strategy Developing meaningful security program development metrics Designing relevant information security management metrics Defining incident management and response metrics Complemented with action plans and sample policies that demonstrate to readers how to put these ideas into practice, Information Security Governance is indispensable reading for any professional who is involved in information security and assurance.

Apache Spark Implementation on IBM z/OS - Lydia Parziale
2016-08-13

The term big data refers to extremely large sets of data that are analyzed to reveal insights, such as patterns, trends, and associations. The algorithms that analyze this data to provide these insights must extract value from a wide range of data sources, including business data and live, streaming, social media data.

However, the real value of these insights comes from their timeliness. Rapid delivery of insights enables anyone (not only data scientists) to make effective decisions, applying deep intelligence to every enterprise application. Apache Spark is an integrated analytics framework and runtime to accelerate and simplify algorithm development, deployment, and realization of business insight from analytics. Apache Spark on IBM® z/OS® puts the open source engine, augmented with unique differentiated features, built specifically for data science, where big data resides. This IBM Redbooks® publication describes the installation and configuration of IBM z/OS Platform for Apache Spark for field teams and clients. Additionally, it includes examples of business analytics scenarios.

Backpacker - 2007-09

Backpacker brings the outdoors straight to the reader's doorstep,

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inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish.

Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

Maritime Economics - Alan Branch 2013-04-15

Now in its second edition *Maritime Economics* provides a valuable introduction to the organisation and workings of the global shipping industry. The author outlines the economic theory as well as many of the operational practicalities involved. Extensively revised for the new edition, the book has many clear illustrations and

tables. Topics covered include: * an overview of international trade * Maritime Law * economic organisation and principles * financing ships and shipping companies * market research and forecasting.

Reconfigurable Computing - Joao Cardoso 2011-08-17

As the complexity of modern embedded systems increases, it becomes less practical to design monolithic processing platforms. As a result, reconfigurable computing is being adopted widely for more flexible design. Reconfigurable Computers offer the spatial parallelism and fine-grained customizability of application-specific circuits with the postfabrication programmability of software. To make the most of this unique combination of performance and flexibility, designers need to be aware of both hardware and software issues. FPGA users must think not only about the gates needed to perform a computation

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but also about the software flow that supports the design process. The goal of this book is to help designers become comfortable with these issues, and thus be able to exploit the vast opportunities possible with reconfigurable logic.

Advanced Circuits for Emerging Technologies - Krzysztof

Iniewski 2012-04-17

The book will address the-state-of-the-art in integrated circuit design in the context of emerging systems. New exciting opportunities in body area networks, wireless communications, data networking, and optical imaging are discussed. Emerging materials that can take system performance beyond standard CMOS, like Silicon on Insulator (SOI), Silicon Germanium (SiGe), and Indium Phosphide (InP) are explored. Three-dimensional (3-D) CMOS integration and co-integration with sensor technology are described as well. The book is a

must for anyone serious about circuit design for future technologies. The book is written by top notch international experts in industry and academia. The intended audience is practicing engineers with integrated circuit background. The book will be also used as a recommended reading and supplementary material in graduate course curriculum.

Intended audience is professionals working in the integrated circuit design field. Their job titles might be : design engineer, product manager, marketing manager, design team leader, etc. The book will be also used by graduate students. Many of the chapter authors are University Professors.

Valuepack - Thomas Connolly
2005-08-01

Analysis and Design of Analog Integrated Circuits, 5th Edition - Paul R. Gray 2009-01-05

This is the only comprehensive
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book in the market for engineers that covers the design of CMOS and bipolar analog integrated circuits. The fifth edition retains its completeness and updates the coverage of bipolar and CMOS circuits. A thorough analysis of a new low-voltage bipolar operational amplifier has been

added to Chapters 6, 7, 9, and 11. Chapter 12 has been updated to include a fully differential folded cascode operational amplifier example. With its streamlined and up-to-date coverage, more engineers will turn to this resource to explore key concepts in the field.