

Digital Logic Circuits By P S Manoharan

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Advances in Renewable Energies and Power Technologies - Imene Yahyaoui 2018-02-23

Advances in Renewable Energies and Power Technologies Volume 2: Biomass, Fuel Cells, Geothermal Energies, and Smart Grids examines both the theoretical and practical elements of renewable energy sources, covering biomass, fuel cells, geothermal energy, RES, distributed energy, smart grids, and converter control. Dr. Yahyaoui and a team of expert contributors present the most up-to-date information and analysis on renewable energy generation technologies in this comprehensive resource. This volume covers the principles and methods of each technology, an analysis of their implementation, management and optimization, and related economic advantages and limitations, in addition to recent case studies and models of each technology. Advances in Renewable Energies and Power Technologies: Volume 2: Biomass, Fuel Cells, Geothermal Energies, and Smart Grids is a valuable resource for anyone working in renewable energy or wanting to learn more about theoretical and technological aspects of the most recent inventions and research in the field. Offers a comprehensive guide to the most advanced contemporary renewable power generation technologies written by a team of top experts Discusses power control and limitations of each technology Includes global case studies and models to exemplify the technological possibilities and limitations of each power generation

method

The Writing Revolution - Amalia E. Gnanadesikan 2011-09-13

In a world of rapid technological advancements, it can be easy to forget that writing is the original Information Technology, created to transcend the limitations of human memory and to defy time and space. The Writing Revolution picks apart the development of this communication tool to show how it has conquered the world. Explores how writing has liberated the world, making possible everything from complex bureaucracy, literature, and science, to instruction manuals and love letters Draws on an engaging range of examples, from the first cuneiform clay tablet, Egyptian hieroglyphs, and Japanese syllabaries, to the printing press and the text messaging Weaves together ideas from a number of fields, including history, cultural studies and archaeology, as well as linguistics and literature, to create an interdisciplinary volume Traces the origins of each of the world's major written traditions, along with their applications, adaptations, and cultural influences
Digital Principles and Applications Albert Paul Malvino 1986

Digital Principles & System Design - Atul P. Godse 2007

Current Technical Papers 1974

Therapeutic Oligonucleotides - Jens Kurreck 2008

This book provides a compelling overall update on current status of RNA interference

Microprocessors & Microcontrollers - Atul P. Godse 2008

Pentium Microprocessor Historical evolution of 80286, 386 and 486 processors, Pentium features and architecture, Pin description, Functional description, Pentium real mode, Pentium RISC features, Pentium super-scalar architecture - pipelining, Instruction paring rules, Branch prediction, Instruction and data caches The floating-point unit. Bus Cycles and Memory Organisation Initialization and configuration, Bus operations-reset, Non pipelined and pipelined (read and write), Memory organisation and I/O organisation, Data transfer mechanism-8 bit, 16 bit, 32 bit data bus interface. Pentium programming Programmer's model, Register set, Addressing modes, Instruction set, Data types, Data transfer instructions, String instructions, Arithmetic instructions, Logical instructions, Bit manipulation instructions, Program transfer instructions and Processor control instructions. Protected Mode Introduction, Segmentation-support registers, Related instructions descriptors, Memory management through segmentation, Logical to linear address translation, Protection by segmentation, Privilege level-protection, Related instructions, Inter-privilege level transfer of control, Paging-support registers, descriptors, Linear to physical address translation, TLB, Page level protection, Virtual memory. Multitasking, Interrupts Exceptions and I/O Multitasking - Support registers, Related descriptors, Task switching, I/O Permission bit map. Virtual mode - features, Address generation, Privilege level, Instructions and registers available, entering and leaving V86 mode. Interrupt structure - Real, Protected and Virtual 8086 modes, I/O handling in Pentium, Comparison of all three modes. 8051 Micro-controller Micro-controller MCS-51 family architecture, On-chip data memory and program memory organization - Register set, Register bank, SFRs, External data memory and program memory, Interrupts structure, Timers and their programming, Serial port and programming, Other features, Design of minimum system using 8051 micro-controller for

various applications. PIC Micro-controller Overview and features of PIC16C, PIC 16F8XX, Pin diagram, Capture mode, Compare mode, PWM mode, Block diagram, Programmer's model PIC, Reset and clocking. Memory organization - program memory, data memory, Flash, EEPROM, PIC 16F8XX addressing modes, Instruction set, programming, I/O ports, Interrupts, Timers, ADC.

Index to IEEE Publications Institute of Electrical and Electronics Engineers 1998

Issues for 1973- cover the entire IEEE technical literature.

Logic and Computer Design Fundamentals M. Morris Mano 2004

Featuring a strong emphasis on the fundamentals underlying contemporary logic design using hardware description languages, synthesis and verification, this text focuses on the ever-evolving applications of basic computer design concepts.

Engineering Index of India - 1972

Antisense Research and Applications Stanley T. Crooke 2012-12-06

Antisense technology may result in dramatic changes in the therapy of many diseases and may provide tools to dissect pharmacological processes and to confirm the roles of various genes. In this volume, progress in the understanding of antisense technology and its use in creating new drugs is discussed. Potential caveats, pitfalls and limitations of the technology are also presented. In the next few years the pace at which new molecular targets will be identified will increase exponentially as the sequencing of the human genome and of other genomes proceeds.

Instrument Engineers' Handbook, Third Edition, Volume Three -

Bela G. Liptak 2002-06-26

Instrument Engineers' Handbook, Third Edition: Volume Three: Process Software and Digital Networks provides an in-depth, state-of-the-art review of existing and evolving digital communications and control systems. While the book highlights the transportation of digital information by buses and networks, the total coverage doesn't stop there. It describes a variety of process-control software packages suited

for plant optimization, maintenance, and safety related applications. In addition, topics include plant design and modernization, safety and operations related logic systems, and the design of integrated workstations and control centers. The book concludes with an appendix providing practical information such as bidders lists and addresses, steam tables, materials selection for corrosive services, and much more. If you buy the three-volume set of the Instrument Engineers Handbook, you will have everything a process control engineer or instrumentation technician needs. If you buy this volume, you will have at your fingertips all the software and digital network related information that is needed by I&C engineers. It will be the resource you reach for over and over again.

Hybrid Power - Yatish T. Shah 2021-02-19

Hybrid energy systems integrate multiple sources of power generation, storage, and transport mechanisms and can facilitate increased usage of cleaner, renewable, and more efficient energy sources. Hybrid Power: Generation, Storage, and Grids discusses hybrid energy systems from fundamentals through applications and discusses generation, storage, and grids. Highlights fundamentals and applications of hybrid energy storage Discusses use in hybrid and electric vehicles and home energy needs Discusses issues related to hybrid renewable energy systems connected to the utility grid Describes the usefulness of hybrid microgrids and various forms of off-grid energy such as mini-grids, nanogrids, and stand-alone systems Covers the use of hybrid renewable energy systems for rural electrification around the world Discusses various forms and applications of hybrid energy systems, hybrid energy storage, hybrid microgrids, and hybrid off-grid energy systems Details simulation and optimization of hybrid renewable energy systems This book is aimed at advanced students and researchers in academia, government, and industry, seeking a comprehensive overview of the basics, technologies, and applications of hybrid energy systems.

Applied Chemistry Oleg Roussak 2012-09-27

This updated edition of Gesser's classic textbook has undergone a full revision and now has the latest material, including new chapters on semiconductors and nanotechnology. It includes a supplementary

laboratory section with stepwise experimental protocols.

Multidisciplinary Microfluidic and Nanofluidic Lab-on-a-Chip
James Li 2021-09-19

Multidisciplinary Microfluidic and Nanofluidic Lab-on-a-Chip: Principles and Applications provides chemists, biophysicists, engineers, life scientists, biotechnologists, and pharmaceutical scientists with the principles behind the design, manufacture, and testing of life sciences microfluidic systems. This book serves as a reference for technologies and applications in multidisciplinary areas, with an emphasis on quickly developing or new emerging areas, including digital microfluidics, nanofluidics, papers-based microfluidics, and cell biology. The book offers practical guidance on how to design, analyze, fabricate, and test microfluidic devices and systems for a wide variety of applications including separations, disease detection, cellular analysis, DNA analysis, proteomics, and drug delivery. Calculations, solved problems, data tables, and design rules are provided to help researchers understand microfluidic basic theory and principles and apply this knowledge to their own unique designs. Recent advances in microfluidics and microsystems for life sciences are impacting chemistry, biophysics, molecular, cell biology, and medicine for applications that include DNA analysis, drug discovery, disease research, and biofluid and environmental monitoring. Provides calculations, solved problems, data tables and design rules to help understand microfluidic basic theory and principles Gives an applied understanding of the principles behind the design, manufacture, and testing of microfluidic systems Emphasizes on quickly developing and emerging areas, including digital microfluidics, nanofluidics, papers-based microfluidics, and cell biology

Marketing Management and Communications in the Public Sector
Martial Pasquier 2017-08-18

This updated edition of Marketing Management and Communications in the Public Sector provides a thorough overview of the major concepts in public sector marketing and communications, two fields that have continued to grow in importance for modern public administrations. With extended coverage of topics such as social marketing and institutional

communication, the authors skilfully build on the solid foundations laid down in the previous edition. Replete with real-world case studies and examples, including new material from the USA, Australia, and Asia, this book gives students a truly international outlook. Additional features include exercises and discussion questions in each chapter and an illustrative extended case study. This refreshed text is essential reading for postgraduate students on public management degrees, and aspiring or current public managers. The Open Access version of this book, available at <http://www.taylorfrancis.com/books/e/9781315622309>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

Electrical Machines - I - Uday A. Bakshi 2020-11-01

The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage of the magnetic circuits, magnetic materials, single and three phase transformers and d.c. machines. The book is structured to cover the key aspects of the course Electrical Machines - I. The book starts with the explanation of basics of magnetic circuits, concepts of self and mutual inductances and important magnetic materials. Then it explains the fundamentals of single phase transformers including the construction, phasor diagram, equivalent circuit, losses, efficiency, methods of cooling, parallel operation and autotransformer. The chapter on three phase transformer provides the detailed discussion of construction, connections, phasor groups, parallel operation, tap changing transformer and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems. Then the book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics, parallel operation and applications. The book also includes the details of d.c. motors such as characteristics, types of starters, speed control methods, electric braking and permanent magnet d.c. motors. Finally, the book covers the various testing methods of d.c. machines including Swinburne's test, brake test,

retardation test and Hopkinson's test. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self-explanatory diagrams and variety of solved problems. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Digital Logic Circuits - P. Godse 2007

The Digital Transformation of Logistics - Johannes Kern 2021-04-06
The digital transformation is in full swing and fundamentally changes how we live, work, and communicate with each other. From retail to finance, many industries see an inflow of new technologies, disruption through innovative platform business models, and employees struggling to cope with the significant shifts occurring. This Fourth Industrial Revolution is predicted to also transform Logistics and Supply Chain Management, with delivery systems becoming automated, smart networks created everywhere, and data being collected and analyzed universally. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides a holistic overview of this vital subject clouded by buzz, hype, and misinformation. The book is divided into three themed-sections: Technologies such as self-driving cars or virtual reality are not only electrifying science fiction lovers anymore, but are also increasingly presented as cure-all remedies to supply chain challenges. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, the authors peel back the layers of excitement that have grown around new technologies such as the Internet of Things (IoT), 3D printing, Robotic Process Automation (RPA), Blockchain or Cloud computing, and show use cases that give a glimpse about the fascinating future we can expect. Platforms that allow businesses to centrally acquire and manage their logistics services disrupt an industry that has been relationship-based for

centuries. The authors discuss smart contracts, which are one of the most exciting applications of Blockchain, Software as a Service (SaaS) offerings for freight procurement, where numerous data sources can be integrated and decision-making processes automated, and marine terminal operating systems as an integral node for shipments. In *The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution*, insights are shared into the cold chain industry where companies respond to increasing quality demands, and how European governments are innovatively responding to challenges of cross-border eCommerce. People are a vital element of the digital transformation and must be on board to drive change. *The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution* explains how executives can create sustainable impact and how competencies can be managed in the digital age - especially for sales executives who require urgent upskilling to remain relevant. Best practices are shared for organizational culture change, drawing on studies among senior leaders from the US, Singapore, Thailand, and Australia, and for managing strategic alliances with logistics service providers to offset risks and create cross-functional, cross-company transparency. *The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution* provides realistic insights, a ready-to-use knowledge base, and a working vocabulary about current activities and emerging trends of the Logistics industry. Intended readers are supply chain professionals working for manufacturing, trading, and freight forwarding companies as well as students and all interested parties.

Swarm, Evolutionary, and Memetic Computing - Bijaya Ketan Panigrahi 2013-12-05

Perovskite Photovoltaics - Aparna Thankappan 2018-06-29
Perovskite Photovoltaics: Basic to Advanced Concepts and Implementation examines the emergence of perovskite photovoltaics, associated challenges and opportunities, and how to achieve broader development. Consolidating developments in perovskite photovoltaics,

including recent progress solar cells, this text also highlights advances and the research necessary for sustaining energy. Addressing different photovoltaics fields with tailored content for what makes perovskite solar cells suitable, and including commercialization examples of large-scale perovskite solar technology. The book also contains a detailed analysis of the implementation and economic viability of perovskite solar cells, highlighting what photovoltaic devices need to be generated by low cost, non-toxic, earth abundant materials using environmentally scalable processes. This book is a valuable resource engineers, scientists and researchers, and all those who wish to broaden their knowledge on flexible perovskite solar cells. Includes contributions by leading solar cell academics, industrialists, researchers and institutions across the globe. Addresses different photovoltaics fields with tailored content for what makes perovskite solar cells different. Provides commercialization examples of large-scale perovskite solar technology, giving users detailed analysis on the implementation, technical challenges and economic viability of perovskite solar cells.

Power Electronics and Renewable Energy Systems - C.

Kamalakaran 2014-11-19

The book is a collection of high-quality peer-reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems (ICPERES 2014) held at Rajalakshmi Engineering College, Chennai, India. These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

Managing Gigabytes - Ian H.. Witten 1999-05-03

"This book is the Bible for anyone who needs to manage large data collections. It's required reading for our search gurus at Infoseek. The authors have done an outstanding job of incorporating and describing the most significant new research in information retrieval over the past five years into this second edition." Steve Kirsch, Cofounder, Infoseek

Corporation "The new edition of Witten, Moffat, and Bell not only has newer and better text search algorithms but much material on image analysis and joint image/text processing. If you care about search engines, you need this book: it is the only one with full details of how they work. The book is both detailed and enjoyable; the authors have combined elegant writing with top-grade programming." Michael Lesk, National Science Foundation "The coverage of compression, file organizations, and indexing techniques for full text and document management systems is unsurpassed. Students, researchers, and practitioners will all benefit from reading this book." Bruce Croft, Director, Center for Intelligent Information Retrieval at the University of Massachusetts In this fully updated second edition of the highly acclaimed *Managing Gigabytes*, authors Witten, Moffat, and Bell continue to provide unparalleled coverage of state-of-the-art techniques for compressing and indexing data. Whatever your field, if you work with large quantities of information, this book is essential reading—an authoritative theoretical resource and a practical guide to meeting the toughest storage and access challenges. It covers the latest developments in compression and indexing and their application on the Web and in digital libraries. It also details dozens of powerful techniques supported by mg, the authors' own system for compressing, storing, and retrieving text, images, and textual images. mg's source code is freely available on the Web.

Digital Logic and Computer Design - M. Morris Mano 2017

This book presents the basic concepts used in the design and analysis of digital systems and introduces the principles of digital computer organization and design.

Advances in Smart Grid Technology - Pierluigi Siano 2020-09-22

This book comprises the select proceedings of the International Conference on Power Engineering Computing and Control (PECCON) 2019. This volume focuses on the different renewable energy sources which are integrated in a smart grid and their operation both in the grid connected mode and islanded mode. The contents highlight the role of power converters in the smart grid environment, battery management,

electric vehicular technology and electric charging station as a load for the power network. This book can be useful for beginners, researchers as well as professionals interested in the area of smart grid technology.

Sensors for Automotive Applications - Jiri Marek 2006-03-06

Taken as a whole, this series covers all major fields of application for commercial sensors, as well as their manufacturing techniques and major types. As such the series does not treat bulk sensors, but rather places strong emphasis on microsensors, microsystems and integrated electronic sensor packages. Each of the individual volumes is tailored to the needs and queries of readers from the relevant branch of industry. An international team of experts from the leading companies in this field gives a detailed picture of existing as well as future applications. They discuss in detail current technologies, design and construction concepts, market considerations and commercial developments. Topics covered include vehicle safety, fuel consumption, air conditioning, emergency control, traffic control systems, and electronic guidance using radar and video.

Entangled Life Merlin Sheldrake 2020-05-12

NEW YORK TIMES BESTSELLER • A “brilliant [and] entrancing” (The Guardian) journey into the hidden lives of fungi—the great connectors of the living world—and their astonishing and intimate roles in human life, with the power to heal our bodies, expand our minds, and help us address our most urgent environmental problems. “Grand and dizzying in how thoroughly it recalibrates our understanding of the natural world.”—Ed Yong, author of *I Contain Multitudes* ONE OF THE BEST BOOKS OF THE YEAR—Time, BBC Science Focus, The Daily Mail, Geographical, The Times, The Telegraph, New Statesman, London Evening Standard, Science Friday When we think of fungi, we likely think of mushrooms. But mushrooms are only fruiting bodies, analogous to apples on a tree. Most fungi live out of sight, yet make up a massively diverse kingdom of organisms that supports and sustains nearly all living systems. Fungi provide a key to understanding the planet on which we live, and the ways we think, feel, and behave. In *Entangled Life*, the brilliant young biologist Merlin Sheldrake shows us the world from a

fungal point of view, providing an exhilarating change of perspective. Sheldrake's vivid exploration takes us from yeast to psychedelics, to the fungi that range for miles underground and are the largest organisms on the planet, to those that link plants together in complex networks known as the "Wood Wide Web," to those that infiltrate and manipulate insect bodies with devastating precision. Fungi throw our concepts of individuality and even intelligence into question. They are metabolic masters, earth makers, and key players in most of life's processes. They can change our minds, heal our bodies, and even help us remediate environmental disaster. By examining fungi on their own terms, Sheldrake reveals how these extraordinary organisms—and our relationships with them—are changing our understanding of how life works. Winner of the Wainwright Prize, the Royal Society Science Book Prize, and the Guild of Food Writers Award • Shortlisted for the British Book Award • Longlisted for the Rathbones Folio Prize
[Indian Science Abstracts - 2001-07](#)

Bulletin of the Institution of Engineers (India). - Institution of Engineers (India) 1974

IEEE Membership Directory Institute of Electrical and Electronics Engineers 1989

Evolutionary Computing and Mobile Sustainable Networks - V. Suma 2020-07-31

This book features selected research papers presented at the International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2020), held at the Sir M. Visvesvaraya Institute of Technology on 20–21 February 2020. Discussing advances in evolutionary computing technologies, including swarm intelligence algorithms and other evolutionary algorithm paradigms which are emerging as widely accepted descriptors for mobile sustainable networks virtualization, optimization and automation, this book is a valuable resource for researchers in the field of evolutionary computing and

mobile sustainable networks.

Mistering Machine Learning with Python in Six Steps Prashant M. Pawar Swamynathan 2019-10-01

Explore fundamental to advanced Python 3 topics in six steps, all designed to make you a worthy practitioner. This updated version's approach is based on the "six degrees of separation" theory, which states that everyone and everything is a maximum of six steps away and presents each topic in two parts: theoretical concepts and practical implementation using suitable Python 3 packages. You'll start with the fundamentals of Python 3 programming language, machine learning history, evolution, and the system development frameworks. Key data mining/analysis concepts, such as exploratory analysis, feature dimension reduction, regressions, time series forecasting and their efficient implementation in Scikit-learn are covered as well. You'll also learn commonly used model diagnostic and tuning techniques. These include optimal probability cutoff point for class creation, variance, bias, bagging, boosting, ensemble voting, grid search, random search, Bayesian optimization, and the noise reduction technique for IoT data. Finally, you'll review advanced text mining techniques, recommender systems, neural networks, deep learning, reinforcement learning techniques and their implementation. All the code presented in the book will be available in the form of iPython notebooks to enable you to try out these examples and extend them to your advantage. What You'll Learn Understand machine learning development and frameworks Assess model diagnosis and tuning in machine learning Examine text mining, natural language processing (NLP), and recommender systems Review reinforcement learning and CNN Who This Book Is For Python developers, data engineers, and machine learning engineers looking to expand their knowledge or career into machine learning area.
[Techno-Societal 2020](#) - Prashant M. Pawar 2021-06-19
This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant

problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as advanced and sustainable technologies for manufacturing processes, environment, livelihood, rural employment, agriculture, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.
Journal of the Institution of Engineers -(1985 a).

Control System Engineering - Uday A. Bakshi 2020-11-01

The book is written for an undergraduate course on the Feedback Control Systems. It provides comprehensive explanation of theory and practice of control system engineering. It elaborates various aspects of time domain and frequency domain analysis and design of control systems. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book starts with explaining the various types of control systems. Then it explains how to obtain the mathematical models of various types of systems such as electrical, mechanical, thermal and liquid level systems. Then the book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view. The book further illustrates the steady state and transient analysis of control systems. The

book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems. The book emphasizes the detailed analysis of second order systems as these systems are common in practice and higher order systems can be approximated as second order systems. The book teaches the concept of stability and time domain stability analysis using Routh-Hurwitz method and root locus method. It further explains the fundamentals of frequency domain analysis of the systems including co-relation between time domain and frequency domain. The book gives very simple techniques for stability analysis of the systems in the frequency domain, using Bode plot, Polar plot and Nyquist plot methods. It also explores the concepts of compensation and design of the control systems in time domain and frequency domain. The classical approach loses the importance of initial conditions in the systems. Thus, the book provides the detailed explanation of modern approach of analysis which is the state variable analysis of the systems including methods of finding the state transition matrix, solution of state equation and the concepts of controllability and observability. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

An ASIC Low Power Primer - Rakesh Chadha 2012-12-05

This book provides an invaluable primer on the techniques utilized in the design of low power digital semiconductor devices. Readers will benefit from the hands-on approach which starts from the ground-up, explaining with basic examples what power is, how it is measured and how it impacts on the design process of application-specific integrated circuits (ASICs). The authors use both the Unified Power Format (UPF) and Common Power Format (CPF) to describe in detail the power intent for an ASIC and then guide readers through a variety of architectural and implementation techniques that will help meet the power intent. From analyzing system power consumption, to techniques that can be employed in a low power design, to a detailed description of two

alternate standards for capturing the power directives at various phases of the design, this book is filled with information that will give ASIC designers a competitive edge in low-power design.

Science Abstracts - 1993

Digital Electronics - Anil K. Maini 2007-09-27

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth

look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Trees of Delhi Pradip Krishen 2006

Advanced Organic Chemistry - Francis A. Carey 2007-06-27

The two-part, fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand alone; together, with Part B: Reaction and Synthesis, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.