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Xiang Xie



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Design and Modeling of Low Power VLSI Systems Sharma, Manoj, Gautam, Ruchi, Khan, Mohammad

Ayoub, 2016-06-06 Very Large Scale Integration VLSI Systems refer to the latest development in computer microchips which are created by integrating hundreds of thousands of transistors into one chip Emerging research in this area has the potential to uncover further applications for VLSI technologies in addition to system advancements Design and Modeling of Low Power VLSI Systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization Through a research based discussion of the technicalities involved in the VLSI hardware development process cycle this book is a useful resource for researchers engineers and graduate level students in computer science and engineering *Radio Frequency Identification* Stefan

Mangard, Patrick Schaumont, 2015-09-24 This book constitutes the thoroughly refereed post conference proceedings of the 11th International Workshop on Radio Frequency Identification held in New York USA in June 2015 The 10 revised full papers were carefully reviewed and selected from 23 submissions and are organized in topical sections on PUFs and applications side channels and countermeasures RFID system attacks and efficient implementations **Semiconductor**

Nanotechnology Stephen M. Goodnick, Anatoli Korkin, Robert Nemanich, 2018-07-26 This book presents research dedicated to solving scientific and technological problems in many areas of electronics photonics and renewable energy Energy and information are interconnected and are essential elements for the development of human society Transmission processing and storage of information requires energy consumption while the efficient use and access to new energy sources requires new information ideas and expertise and the design of novel systems such as photovoltaic devices fuel cells and batteries Semiconductor physics creates the knowledge base for the development of information computers cell phones etc and energy photovoltaic technologies The exchange of ideas and expertise between these two technologies is critical and expands beyond semiconductors Continued progress in information and renewable energy technologies requires miniaturization of devices and reduction of costs energy and material consumption The latest generation of electronic devices is now approaching nanometer scale dimensions new materials are being introduced into electronics manufacturing at an unprecedented rate and alternative technologies to mainstream CMOS are evolving Nanotechnology is widely accepted as a source of potential solutions in securing future progress for information and energy technologies Semiconductor Nanotechnology features chapters that cover the following areas atomic scale materials design bio and molecular electronics high frequency electronics fabrication of nanodevices magnetic materials and spintronics materials and processes for integrated and subwave optoelectronics nanoCMOS new materials for FETs and other devices nanoelectronics system architecture nano optics and lasers non silicon materials and devices chemical and biosensors quantum effects in devices nano science and technology applications in the development of novel solar energy devices and fuel cells and batteries

VLSI-SoC: Design for Reliability, Security, and Low Power Youngsoo Shin, Chi Ying Tsui, Jae-Joon Kim, Kiyoungh Choi, Ricardo Reis, 2016-09-12 This book contains extended and revised versions of the best papers presented at the 23rd IFIP WG 10.5 IEEE International Conference on Very Large Scale Integration VLSI SoC 2015 held in Daejeon Korea in October 2015. The 10 papers included in the book were carefully reviewed and selected from the 44 full papers presented at the conference. The papers cover a wide range of topics in VLSI technology and advanced research. They address the current trend toward increasing chip integration and technology process advancements bringing about new challenges both at the physical and system design levels as well as in the test of these systems. Hybrid ADCs, Smart Sensors for the IoT, and Sub-1V & Advanced Node Analog Circuit Design Pieter Harpe, Kofi A. A. Makinwa, Andrea Baschiroto, 2017-09-18 This book is based on the 18 tutorials presented during the 26th workshop on Advances in Analog Circuit Design. Expert designers present readers with information about a variety of topics at the frontier of analog circuit design with specific contributions focusing on hybrid ADCs, smart sensors for the IoT, sub-1V and advanced node analog circuit design. This book serves as a valuable reference to the state of the art for anyone involved in analog circuit research and development. *Advances in VLSI, Communication, and Signal Processing* Debashis Dutta, Haranath Kar, Chiranjeev Kumar, Vijaya Bhadauria, 2019-12-03 This book comprises select proceedings of the International Conference on VLSI Communication and Signal Processing VCAS 2018. It looks at latest research findings in VLSI design and applications. The book covers a wide range of topics in electronics and communication engineering especially in the area of microelectronics and VLSI design, communication systems and networks, and image and signal processing. The contents of this book will be useful to researchers and professionals alike.

Handbook of Computer Networks and Cyber Security Brij B. Gupta, Gregorio Martinez Perez, Dharma P. Agrawal, Deepak Gupta, 2019-12-31 This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook includes various concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving security-intensive information requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from a variety of threats which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy, and trust to use and improve the reliability of businesses in a distributed manner as well as computer scientists and software developers who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced level

students in computer science will also benefit from this reference

Nanoelectronics, Circuits and Communication

Systems Vijay Nath,J. K. Mandal,2020-04-01 This book features selected papers presented at the Fourth International Conference on Nanoelectronics Circuits and Communication Systems NCCS 2018 Covering topics such as MEMS and nanoelectronics wireless communications optical communications instrumentation signal processing the Internet of Things image processing bioengineering green energy hybrid vehicles environmental science weather forecasting cloud computing renewable energy RFID CMOS sensors actuators transducers telemetry systems embedded systems and sensor network applications in mines it offers a valuable resource for young scholars researchers and academics alike

Physics of Semiconductor Devices Simon M. Sze,Yiming Li,Kwok K. Ng,2021-03-03 The new edition of the most detailed and comprehensive single volume reference on major semiconductor devices The Fourth Edition of Physics of Semiconductor Devices remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices This fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters Divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties The second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor MIS capacitors Part III examines bipolar transistors MOSFETs MOS field effect transistors and other field effect transistors such as JFETs junction field effect transistors and MESFETs metal semiconductor field effect transistors Part IV focuses on negative resistance and power devices The book concludes with coverage of photonic devices and sensors including light emitting diodes LEDs solar cells and various photodetectors and semiconductor sensors This classic volume the standard textbook and reference in the field of semiconductor devices Provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts performance and application Features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy Includes numerous problem sets real world examples tables figures and illustrations several useful appendices and a detailed solutions manual for Instructor s only Explores new work on leading edge technologies such as MODFETs resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and MOS controlled thyristors Physics of Semiconductor Devices Fourth Edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field

Radiation Tolerant Electronics Paul

Leroux,2019-08-26 Research on radiation tolerant electronics has increased rapidly over the past few years resulting in many interesting approaches to modeling radiation effects and designing radiation hardened integrated circuits and embedded

systems This research is strongly driven by the growing need for radiation hardened electronics for space applications high energy physics experiments such as those on the Large Hadron Collider at CERN and many terrestrial nuclear applications including nuclear energy and nuclear safety With the progressive scaling of integrated circuit technologies and the growing complexity of electronic systems their susceptibility to ionizing radiation has raised many exciting challenges which are expected to drive research in the coming decade In this book we highlight recent breakthroughs in the study of radiation effects in advanced semiconductor devices as well as in high performance analog mixed signal RF and digital integrated circuits We also focus on advances in embedded radiation hardening in both FPGA and microcontroller systems and apply radiation hardened embedded systems for cryptography and image processing targeting space applications

2015 Technical Manual Sram Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**2015 Technical Manual Sram**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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