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Scientific Computing in Electrical Engineering - Angelo Marcello Anile 2007-01-10

This book is a collection of papers presented at the last Scientific Computing in Electrical Engineering (SCEE) Conference, held in Sicily, in 2004. The series of SCEE conferences aims at addressing mathematical problems which have a relevancy to industry. The areas covered at SCEE-2004 were: Electromagnetism, Circuit Simulation, Coupled Problems and General mathematical and computational methods.

Advanced Computing and Communication Technologies - Ramesh K Choudhary 2016-06-09

This book highlights a collection of high-quality peer-reviewed research papers presented at the Ninth International Conference on Advanced Computing & Communication Technologies (ICACCT-2015) held at Asia Pacific Institute of Information Technology, Panipat, India during 27-29 November 2015. The book discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academia and industry present their original work and exchange ideas, information, techniques and applications in the field of Advanced Computing and Communication Technology.

IC Master - 1990

Handbook of Microwave and Radar Engineering - Anatoly Belous 2021-01-04

This comprehensive handbook provides readers with a single-source reference to the theoretical fundamentals, physical mechanisms and principles of operation of all known microwave

devices and various radars. The author discusses proven methods of computation and design development, process, schematic, schematic-technical and construction peculiarities of each breed of the microwave devices, as well as the most popular and original technical solutions for radars. Coverage also includes the history of creation of the most widely used radars, as well as guidelines for their potential upgrading. Offers readers a comprehensive, systematized view of all contemporary knowledge, acquired during the last 20 years, on radars and related disciplines; Provides a single-source reference on the physical mechanisms and principles of operation of the basic components of radio location devices, including theoretical aspects of designing the necessary, high-efficiency electronic devices and systems, as well as key, practical methods of computation and design; Presents complex topics using simple language, minimizing mathematics.

Exploring Cadence® EDA Tools for VLSI Design - Peter L. Semig 2001

Computational Finite Element Methods in Nanotechnology - Sarhan M. Musa 2017-12-19
Computational Finite Element Methods in Nanotechnology demonstrates the capabilities of finite element methods in nanotechnology for a range of fields. Bringing together contributions from researchers around the world, it covers key concepts as well as cutting-edge research and applications to inspire new developments and future interdisciplinary research. In particular, it emphasizes the importance of finite element

methods (FEMs) for computational tools in the development of efficient nanoscale systems. The book explores a variety of topics, including: A novel FE-based thermo-electrical-mechanical-coupled model to study mechanical stress, temperature, and electric fields in nano- and microelectronics The integration of distributed element, lumped element, and system-level methods for the design, modeling, and simulation of nano- and micro-electromechanical systems (N/MEMS) Challenges in the simulation of nanorobotic systems and macro-dimensions The simulation of structures and processes such as dislocations, growth of epitaxial films, and precipitation Modeling of self-positioning nanostructures, nanocomposites, and carbon nanotubes and their composites Progress in using FEM to analyze the electric field formed in needleless electrospinning How molecular dynamic (MD) simulations can be integrated into the FEM Applications of finite element analysis in nanomaterials and systems used in medicine, dentistry, biotechnology, and other areas The book includes numerous examples and case studies, as well as recent applications of microscale and nanoscale modeling systems with FEMs using COMSOL Multiphysics® and MATLAB®. A one-stop reference for professionals, researchers, and students, this is also an accessible introduction to computational FEMs in nanotechnology for those new to the field.

EDN, Electrical Design News - 2003

Foundations and Frontiers in Computer, Communication and Electrical Engineering -

Aritra Acharyya 2016-05-05

The 3rd International Conference on Foundations and Frontiers in Computer, Communication and Electrical Engineering is a notable event which brings together academia, researchers, engineers and students in the fields of Electronics and Communication, Computer and Electrical Engineering making the conference a perfect platform to share experience, f

□□VLSI□□□□ - Erik Brunvand 2009

Advances in Electrical Engineering and Electrical Machines - Dehuai Zheng 2012-02-01

With success of ICEEE 2010 in Wuhan, China,

and December 4 to 5, 2010, the second International Conference of Electrical and Electronics Engineering (ICEEE 2011) will be held in Macau, China, and December 1 to 2, 2011. ICEEE is an annual conference to call together researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Electrical and Electronics Engineering along with Computer Science and Technology, Communication Technology, Artificial Intelligence, Information Technology, etc. This year ICEEE is sponsored by International Industrial Electronics Center, Hong Kong. And based on the deserved reputation, more than 750 papers have been submitted to ICEEE 2011, from which about 98 high quality original papers have been selected for the conference presentation and inclusion in the “Electrical and Electronics Engineering” book based on the referees’ comments from peer-refereed. We expect that the Electrical and Electronics Engineering book will be a trigger for further related research and technology improvements in the importance subject including Power Engineering, Telecommunication, Integrated Circuit, Electronic amplifier , Nano-technologies, Circuits and networks, Microelectronics, Analog circuits, Digital circuits, Circuits design, Silicon devices, Thin film technologies, VLSI, Sensors, CAD tools, Molecular computing, Superconductivity circuits, Antennas technology, System architectures, etc.

Intelligent Technologies and Engineering

Systems - Jengnan Juang 2013-05-21

This book concentrates on intelligent technologies as it relates to engineering systems. The book covers the following topics: networking, signal processing, artificial intelligence, control and software engineering, intelligent electronic circuits and systems, communications, and materials and mechanical engineering. The book is a collection of original papers that have been reviewed by technical editors. These papers were presented at the International Conference on Intelligent Technologies and Engineering Systems, held Dec. 13-15, 2012.

Smart Computing - Mohammad Ayoub Khan 2021-05-12

The field of SMART technologies is an interdependent discipline. It involves the latest burning issues ranging from machine learning, cloud computing, optimisations, modelling techniques, Internet of Things, data analytics, and Smart Grids among others, that are all new fields. It is an applied and multi-disciplinary subject with a focus on Specific, Measurable, Achievable, Realistic & Timely system operations combined with Machine intelligence & Real-Time computing. It is not possible for any one person to comprehensively cover all aspects relevant to SMART Computing in a limited-extent work. Therefore, these conference proceedings address various issues through the deliberations by distinguished Professors and researchers. The SMARTCOM 2020 proceedings contain tracks dedicated to different areas of smart technologies such as Smart System and Future Internet, Machine Intelligence and Data Science, Real-Time and VLSI Systems, Communication and Automation Systems. The proceedings can be used as an advanced reference for research and for courses in smart technologies taught at graduate level.

Low-Power CMOS Digital Pixel Imagers for High-Speed Uncooled PbSe IR Applications - Josep Maria Margarit 2016-12-29

This book describes the development of a new low-cost medium wavelength IR (MWIR) monolithic imager technology for high-speed uncooled industrial applications. It takes the baton on the latest technological advances in the field of vapor phase deposition (VPD) PbSe-based MWIR detection accomplished by the industrial partner NIT S.L., adding fundamental knowledge on the investigation of novel VLSI analog and mixed-signal design techniques at circuit and system levels for the development of the readout integrated device attached to the detector. In order to fulfill the operational requirements of VPD PbSe, this work proposes null inter-pixel crosstalk vision sensor architectures based on a digital-only focal plane array (FPA) of configurable pixel sensors. Each digital pixel sensor (DPS) cell is equipped with fast communication modules, self-biasing, offset cancellation, analog-to-digital converter (ADC) and fixed pattern noise (FPN) correction. In-pixel power consumption is minimized by the use of comprehensive MOSFET subthreshold

operation.

Cases in Corporate Acquisitions, Buyouts, Mergers, and Takeovers - 1999

Electromigration Inside Logic Cells - Gracieli Posser 2016-11-26

This book describes new and effective methodologies for modeling, analyzing and mitigating cell-internal signal electromigration in nanoCMOS, with significant circuit lifetime improvements and no impact on performance, area and power. The authors are the first to analyze and propose a solution for the electromigration effects inside logic cells of a circuit. They show in this book that an interconnect inside a cell can fail reducing considerably the circuit lifetime and they demonstrate a methodology to optimize the lifetime of circuits, by placing the output, Vdd and Vss pin of the cells in the less critical regions, where the electromigration effects are reduced. Readers will be enabled to apply this methodology only for the critical cells in the circuit, avoiding impact in the circuit delay, area and performance, thus increasing the lifetime of the circuit without loss in other characteristics.

The CAD Connection - Quan Nguyen 2007-06

Mixed-Signal Methodology Guide - Jess Chen 2012

This book, the Mixed-signal Methodology Guide: Advanced Methodology for AMS IP and SoC Design, Verification, and Implementation provides a broad overview of the design, verification and implementation methodologies required for today's mixed-signal designs. The book covers mixed-signal design trends and challenges, abstraction of analog using behavioral models, assertion-based metric-driven verification methodology applied on analog and mixed-signal and verification of low power intent in mixed-signal design. It also describes methodology for physical implementation in context of concurrent mixed-signal design and for handling advanced node physical effects. The book contains many practical examples of models and techniques. The authors believe it should serve as a reference to many analog, digital and mixed-signal designers, verification, physical implementation engineers and managers in their

pursuit of information for a better methodology required to address the challenges of modern mixed-signal design.

Electronic Design - 2006

Proceedings of International Conference on Communication, Circuits, and Systems - Sukanta Kumar Sabut 2021-04-02

The book proposes new technologies and discusses innovative solutions to various problems in the field of communication, circuits, and systems, as reflected in high-quality papers presented at International Conference on Communication, Circuits, and Systems (IC3S 2020) held at KIIT, Bhubaneswar, India from 16 - 18 October 2020. It brings together new works from academicians, scientists, industry professionals, scholars, and students together to exchange research outcomes and open up new horizons in the areas of signal processing, communications, and devices.

Integrated Power Devices and TCAD Simulation - Yue Fu 2017-12-19

From power electronics to power integrated circuits (PICs), smart power technologies, devices, and beyond, Integrated Power Devices and TCAD Simulation provides a complete picture of the power management and semiconductor industry. An essential reference for power device engineering students and professionals, the book not only describes the physics inside integrated power semiconductor devices such lateral double-diffused metal oxide semiconductor field-effect transistors (LDMOSFETs), lateral insulated-gate bipolar transistors (LIGBTs), and super junction LDMOSFETs but also delivers a simple introduction to power management systems. Instead of abstract theoretical treatments and daunting equations, the text uses technology computer-aided design (TCAD) simulation examples to explain the design of integrated power semiconductor devices. It also explores next generation power devices such as gallium nitride power high electron mobility transistors (GaN power HEMTs). Including a virtual process flow for smart PIC technology as well as a hard-to-find technology development organization chart, Integrated Power Devices and TCAD Simulation gives students and junior engineers a head start in the field of power semiconductor

devices while helping to fill the gap between power device engineering and power management systems.

Next Generation Information Processing System - Prachi Deshpande 2020-06-13

This book gathers high-quality research papers presented at the International Conference on Computing in Engineering and Technology (ICCET 2020) [formerly ICCASP], a flagship event in the area of engineering and emerging next-generation technologies jointly organized by the Dr. Babasaheb Ambedkar Technological University and MGM's College of Engineering in Nanded, India, on 9-11 January 2020. Focusing on next-generation information processing systems, this second volume of the proceedings includes papers on cloud computing and information systems, artificial intelligence and the Internet of Things, hardware design and communication, and front-end design.

Computerworld - 2004-06-28

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

EDN - 2008

Proceedings of SPIE--the International Society for Optical Engineering - 1999

Artificial Intelligence and Evolutionary Computations in Engineering Systems - Subhransu Sekhar Dash 2016-02-05

The book is a collection of high-quality peer-reviewed research papers presented in the first International Conference on International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES -2015) held at Velammal Engineering College (VEC), Chennai, India during 22 - 23 April 2015. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academic and industry present their original work and exchange ideas, information, techniques and applications in the field of Communication,

Computing and Power Technologies.

Aerospace America - 1996

Intellectual Property for Integrated Circuits

- Kiat Seng Yeo 2010

Intellectual Property for Integrated Circuits provides inventors with the know-how to effectively search for and interpret prior arts and equips them with the knowledge to be granted exclusive rights to control the results of their creativity and to benefit financially from those rights.

ICT Systems and Sustainability - Milan Tuba
2022-12-02

This book proposes new technologies and discusses future solutions for ICT design infrastructures, as reflected in high-quality papers presented at the 7th International Conference on ICT for Sustainable Development (ICT4SD 2022), held in Goa, India, on 29-30 July 2022. The book covers the topics such as big data and data mining, data fusion, IoT programming toolkits and frameworks, green communication systems and network, use of ICT in smart cities, sensor networks and embedded system, network and information security, wireless and optical networks, security, trust, and privacy, routing and control protocols, cognitive radio and networks, and natural language processing. Bringing together experts from different countries, the book explores a range of central issues from an international perspective.

Dataquest - 1999

Microwave Journal - 2008

CONQUER RADIO FREQUENCY - Dr

Francesco Fornetti 2013-09-27

This material, which includes a full-colour textbook and over 12 hours of video tutorials (in mp4 format), provides a comprehensive guide for the RF and Microwave engineering student or junior professional. It allows the reader to achieve a good understanding of the foundation theory and concepts behind high frequency circuits as well illustrating the most common design and simulation techniques for passive and active RF circuits.

Radio-Frequency Integrated-Circuit Engineering - Cam Nguyen 2015-03-03

Radio-Frequency Integrated-Circuit Engineering addresses the theory, analysis and design of passive and active RFIC's using Si-based CMOS and Bi-CMOS technologies, and other non-silicon based technologies. The materials covered are self-contained and presented in such detail that allows readers with only undergraduate electrical engineering knowledge in EM, RF, and circuits to understand and design RFICs. Organized into sixteen chapters, blending analog and microwave engineering, Radio-Frequency Integrated-Circuit Engineering emphasizes the microwave engineering approach for RFICs. • Provides essential knowledge in EM and microwave engineering, passive and active RFICs, RFIC analysis and design techniques, and RF systems vital for RFIC students and engineers • Blends analog and microwave engineering approaches for RFIC design at high frequencies • Includes problems at the end of each chapter

Microelectronics, Electromagnetics and Telecommunications - Jaume Anguera
2018-01-25

The volume contains 94 best selected research papers presented at the Third International Conference on Micro Electronics, Electromagnetics and Telecommunications (ICMEET 2017) The conference was held during 09-10, September, 2017 at Department of Electronics and Communication Engineering, BVRIT Hyderabad College of Engineering for Women, Hyderabad, Telangana, India. The volume includes original and application based research papers on microelectronics, electromagnetics, telecommunications, wireless communications, signal/speech/video processing and embedded systems.

VLSI Design - Vikram Arkalgud Chandrasetty
2011-08-23

This book provides insight into the practical design of VLSI circuits. It is aimed at novice VLSI designers and other enthusiasts who would like to understand VLSI design flows. Coverage includes key concepts in CMOS digital design, design of DSP and communication blocks on FPGAs, ASIC front end and physical design, and analog and mixed signal design. The approach is designed to focus on practical implementation of key elements of the VLSI design process, in order to make the topic accessible to novices. The design concepts are demonstrated using

software from Mathworks, Xilinx, Mentor Graphics, Synopsys and Cadence.

Advances in Micro/Nano Electromechanical Systems and Fabrication Technologies - Kenichi Takahata 2013-05-29

MEMS technology is increasingly penetrating into our lives and improving our quality of life. In parallel to this, advances in nanotechnology and nanomaterials have been catalyzing the rise of NEMS. Consisting of nine chapters reviewing state-of-the-art technologies and their future trends, this book focuses on the latest development of devices and fabrication processes in the field of these extremely miniaturized electromechanical systems. The book offers new knowledge and insight into design, fabrication, and packaging, as well as solutions in these aspects for targeted applications, aiming to support scientists, engineers and academic trainees who are engaged in relevant research. In the chapters, practical issues and advances are discussed for flexible microdevices, bioMEMS, intelligent implants, optical MEMS, nanomachined structures and NEMS, and others. Most of the chapters also focus on novel fabrication/packaging processes, including silicon bulk micromachining, laser micromachining, nanolithography, and packaging for implantable microelectronics enabled by nanomaterials.

Introduction to Physical Integration and Tapeout in VLSIs - Patrick Lee 2010-04-27

This book covers issues and solutions in the physical integration and tapeout management for VLSI design. Chapter 1 gives the overview. Chapter 2 shows detailed techniques for physical design. Chapter 3 provides CAD flows. Chapter 4 discusses on-chip interconnects. A glossary of keywords is provided at the end.

International Conference on Electronics and Electrical Engineering - 2014-07-24

All papers including in this proceedings had undergone the strict peer-review by the experts before they are accepted for publications. This proceeding covers the subjects of analog circuits and digital circuits, assembly and packaging, biomedical circuits, computer architecture, computer engineering, control engineering, electric power system and automation, energy and power systems, instrumentation

engineering, signal processing and other related areas. We hope this proceeding will contribute in stimulating debate and research among scholars, researchers and academicians. CEEE 2014 is to provide a forum for researchers, academicians, engineers, and government officials from all over the world to involved in the general areas of Electronics and Electrical Engineering to disseminate their latest research results and exchange views on the future research directions of these fields. This conference provides opportunities for the participants to exchange new ideas and application experiences face to face.

Education Management, Education Theory and Education Application - Yuanzhi Wang 2011-10-09

This volume includes extended and revised versions of a set of selected papers from the 2011 2nd International Conference on Education and Educational Technology (EET 2011) held in Chengdu, China, October 1-2, 2011. The mission of EET 2011 Volume 2 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of education management, education theory and education application to disseminate their latest research results and exchange views on the future research directions of these fields. 133 related topic papers were selected into this volume. All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Yuanzhi Wang, from Intelligent Information Technology Application Research Association, Hong Kong. The conference will bring together leading researchers, engineers and scientists in the domain of interest. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the education management, education theory and education application.

The Proceedings of the International Conference on Information Engineering, Management and Security 2014 - JBV Subramanyam, Kokula Krishna Hari K 2014-05-15

The Proceedings of the International Conference on Information Engineering, Management and Security 2014 which happened at Christu Jyoti Institute of Technology.

