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ALBERT ANTWAN

3D TCAD Simulation for Semiconductor Processes, Devices and Optoelectronics John Wiley & Sons
Ferroelectric materials have been and still are widely used in many applications, that have moved from sonar towards breakthrough technologies such as memories or optical devices. This book is a part of a four volume collection (covering material aspects, physical effects, characterization and modeling, and applications) and focuses on the application of ferroelectric devices to innovative systems. In particular, the use of these materials as varying capacitors, gyroscope, acoustics sensors and actuators, microgenerators and memory devices will be exposed, providing an up-to-date review of recent scientific findings and recent advances in the field of ferroelectric devices.

Piezoelectricity Morgan Kaufmann

With the intriguing development of technologies in several industries, along with the advent of ubiquitous computational resources, there are now ample opportunities to develop innovative computational technologies in order to solve a wide range of issues concerning uncertainty, imprecision, and vagueness in various real-life problems. The challenge of blending modern computational techniques with traditional computing methods has inspired researchers and academics alike to focus on developing innovative computational techniques. In the near future, computational techniques may provide vital solutions by effectively using evolving technologies such as computer vision, natural language processing, deep learning, machine learning, scientific computing, and computational vision. A vast number of intelligent computational algorithms are emerging, along with increasing computational power, which has significantly expanded the potential for developing intelligent applications. These proceedings of the International Conference on Inventive Computation Technologies [ICICT 2019] cover innovative computing applications in the areas of data mining, big data processing, information management, and security.

For a Sustainable Future McGraw Hill Professional

This Special Issue "Grid-to-Vehicle (G2V) and Vehicle-to-Grid (V2G) Technologies" was in session from 1 May 2019 to 31 May 2020. For this Special issue, we invited articles on current state-of-the-art technologies and solutions in G2V and V2G, including but not limited to the operation and control of gridable vehicles, energy storage and management systems, charging infrastructure and chargers, EV demand and load forecasting, V2G interfaces and applications, V2G and energy reliability and security, environmental impacts, and economic benefits as well as demonstration

projects and case studies in the aforementioned areas. Articles that deal with the latest hot topics in V2G are of particular interest, such as V2G and demand-side response control technique, smart charging infrastructure and grid planning, advanced power electronics for V2G systems, adaptation of V2G systems in the smart grid, adaptation of smart cities for a large number of EVs, integration, and the optimization of V2G systems, utilities and transportation assets for advanced V2G systems, wireless power transfer systems for advanced V2G systems, fault detection, maintenance and diagnostics in V2G processes, communications protocols for V2G systems, energy management system (EMS) in V2G systems, IoT for V2G systems, distributed energy and storage systems for V2G, transportation networks and V2G, energy management for V2G, smart charging/discharging stations for efficient V2G, environmental and socio-economic benefits and challenges of V2G systems, and building integrated V2G systems (BIV2G). Five manuscripts are published in this Special Issue, including "An Ensemble Stochastic Forecasting Framework for Variable Distributed Demand Loads" by Agyeman et al., "Where Will You Park? Predicting Vehicle Locations for Vehicle-to-Grid, An MPC Scheme with Enhanced Active Voltage Vector Region for V2G Inverter" by Shipman et al., "Electric Vehicles Energy Management with V2G/G2V Multifactor Optimization of Smart Grids" by Xia et al., and "A Review on Communication Standards and Charging Topologies of V2G and V2H Operation Strategies" by Savitti et al.

The Fortune Forum Code Springer Nature

With vastly increased complexity and functionality in the "nanometer era" (i.e. hundreds of millions of transistors on one chip), increasing the performance of integrated circuits has become a challenging task. Connecting effectively (interconnect design) all of these chip elements has become the greatest determining factor in overall performance. 3-D integrated circuit design may offer the best solutions in the near future. This is the first book on 3-D integrated circuit design, covering all of the technological and design aspects of this emerging design paradigm, while proposing effective solutions to specific challenging problems concerning the design of 3-D integrated circuits. A handy, comprehensive reference or a practical design guide, this book provides a sound foundation for the design of 3-D integrated circuits. * Demonstrates how to overcome "interconnect bottleneck" with 3-D integrated circuit design...leading edge design techniques offer solutions to problems (performance/power consumption/price) faced by all circuit designers * The FIRST book on 3-D integrated circuit design...provides up-to-date information that is otherwise difficult to find * Focuses on design issues key to the product development cycle...good design plays a major role in exploiting the implementation flexibilities offered in the 3-D * Provides broad coverage of 3-D integrated circuit

design, including interconnect prediction models, thermal management techniques, and timing optimization...offers practical view of designing 3-D circuits

Grid-to-Vehicle (G2V) and Vehicle-to-Grid (V2G) Technologies John Wiley & Sons

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Modular Multilevel Converters Artech House Microwave Library

Vijay Mehta examines the threats and challenges of crippling poverty, global warming, worldwide diseases and interrelated issues of international security and development. He presents ideas of collective action and multilateral solutions for a just, peaceful and sustainable world.

Guideline Technical Document : 1,4-Dioxane Springer Nature

"In the post-9/11 struggle for a sane global vision, this antihated manifesto could not be more timely."--O: The Oprah Magazine In this acclaimed volume, Pulitzer-Prize nominated science writer Rush W. Dozier Jr. demystifies our deadliest emotion--hate. Based on the most recent scientific research in a range of fields, from anthropology to zoology, *Why We Hate* explains the origins and manifestations of this toxic emotion and offers realistic but hopeful suggestions for defusing it. The strategies offered here can be used in both everyday life to improve relationships with family and friends as well as globally in our efforts to heal the hatreds that fester within and among nations of the world.

Compact Modeling Springer Science & Business Media

The latest tips and techniques for working with pastels - in full color Pastels offer bright colors, a great level of portability, and no drying time - plus they're relatively inexpensive and can be used to draw and paint on almost any surface. Pastels For Dummies covers the many aspects of this exciting medium, from the fundamentals of choosing the right materials to step-by-step projects, including landscapes, abstracts, and portraits. Inside you'll find hands-on, easy-to-follow exercises and attractive full-color artwork. Presents drawing, painting, and shading techniques and styles in an easy-to-understand format Accessible to artists of all levels Discover your inner artist with Pastels For Dummies and make your artwork come alive!

Power Electronics and Motor Drives Palala Press

If you can build websites with CSS and JavaScript, this book takes you to the next level—creating dynamic, database-driven websites with PHP and MySQL. Learn how to build a database, manage your content, and interact with users. With step-by-step tutorials, this completely revised edition

gets you started with expanded coverage of the basics and takes you deeper into the world of server-side programming. The important stuff you need to know: Get up to speed quickly. Learn how to install PHP and MySQL, and get them running on both your computer and a remote server. Gain new techniques. Take advantage of the all-new chapter on integrating PHP with HTML web pages. Manage your content. Use the file system to access user data, including images and other binary files. Make it dynamic. Create pages that change with each new viewing. Build a good database. Use MySQL to store user information and other data. Keep your site working. Master the tools for fixing things that go wrong. Control operations. Create an administrative interface to oversee your site. *Analysis, Control, and Applications* Springer Science & Business Media

All model parameters are fundamentally coupled together, so that directly measured individual parameters, although widely used and accepted, may initially only serve as good estimates. This comprehensive resource presents all aspects concerning the modeling of semiconductor field-effect device parameters based on gallium-arsenide (GaAs) and gallium nitride (GaN) technology. Metal-semiconductor field-effect transistors (MESFETs), high electron mobility transistors (HEMTs) and heterojunction bipolar transistors (HBTs), their structures and functions, and existing transistor models are also classified. The Shockley model is presented in order to give insight into semiconductor field-effect transistor (FET) device physics and explain the relationship between geometric and material parameters and device performance. Extraction of trapping and thermal time constants is discussed. A special section is devoted to standard nonlinear FET models applied to large-signal measurements, including static-/pulsed-DC and single-/two-tone stimulation. High power measurement setups for signal waveform measurement, wideband source-/load-pull measurement (including envelope source-/load pull) are also included, along with high-power intermodulation distortion (IMD) measurement setup (including envelope load-pull). Written by a world-renowned expert in the field, this book is the first to cover of all aspects of semiconductor FET device modeling in a single volume.

Applications Artech House

This book covers the use of devices in microwave circuits and includes such topics as semiconductor theory and transistor performance, CAD considerations, intermodulation, noise figure, signal handling, S-parameter mapping, narrow- and broadband techniques, packaging and thermal considerations.

HEMTs and HBTs John Wiley & Sons

High Voltage Direct Current Transmission Converters, Systems and DC Grids John Wiley & Sons

Understanding Chronic Fatigue Syndrome Allyn & Bacon

The perfect gift. This is a blank, lined journal contains: 100 lined pages 6x9 inches Excellent and thick binding Durable white paper Sleek cover for a professional look

High Voltage Direct Current Transmission Walter de Gruyter

Most of the recent texts on compact modeling are limited to a particular class of semiconductor devices and do not provide comprehensive coverage of the field. Having a single comprehensive reference for the compact models of most commonly used semiconductor devices (both active and passive) represents a significant advantage for the reader. Indeed, several kinds of semiconductor devices are routinely encountered in a single IC design or in a single modeling support group.

Compact Modeling includes mostly the material that after several years of IC design applications has been found both theoretically sound and practically significant. Assigning the individual chapters to the groups responsible for the definitive work on the subject assures the highest possible degree of expertise on each of the covered models.

Inventive Computation Technologies MDPI

Technology computer-aided design, or TCAD, is critical to today's semiconductor technology and anybody working in this industry needs to know something about TCAD. This book is about how to use computer software to manufacture and test virtually semiconductor devices in 3D. It brings to life the topic of semiconductor device physics, with a hands-on, tutorial approach that de-emphasizes abstract physics and equations and emphasizes real practice and extensive illustrations. Coverage includes a comprehensive library of devices, representing the state of the art technology, such as SuperJunction LDMOS, GaN LED devices, etc.

How the West Fuels War and Poverty in the Developing World Springer

Ideal gift for the hobbyist in your life - 6x9 119 lined page journal - unique funny gift!

Hardware Hacker Amer Psychological Assn

This book is devoted to resonant energy conversion in powerelectronics. It is a practical, systematic guide to the analysisand design of various dc-dc resonant inverters, high-frequencyrectifiers, and dc-dc resonant converters that are building blocksof many of today's high-frequency energy processors. Designed tofunction as both a superior senior-to-graduate level textbook forelectrical engineering courses and a valuable professionalreference for practicing engineers, it provides students andengineers with a solid grasp of existing high-frequency technology,while acquainting them with a number of easy-to-use tools for theanalysis and design of resonant power circuits. Resonant powerconversion technology is now a very hot area and in the center ofthe renewable energy and energy harvesting technologies.

My Woodwork Notebook IET

Noise Coupling is the root-cause of the majority of Systems on Chip (SoC) product fails. The book discusses a breakthrough substrate coupling analysis flow and modelling toolset, addressing the needs of the design community. The flow provides capability to analyze noise components, propagating through the substrate, the parasitic interconnects and the package. Using this book, the reader can analyze and avoid complex noise coupling that degrades RF and mixed signal design performance, while reducing the need for conservative design practices. With chapters written by leading international experts in the field, novel methodologies are provided to identify noise coupling in silicon. It additionally features case studies that can be found in any modern CMOS SoC product for mobile communications, automotive applications and readout front ends.

PHP & MySQL: The Missing Manual Pluto Press

An invaluable academic reference for the area of high-power converters, covering all the latest developments in the field High-power multilevel converters are well known in industry and academia as one of the preferred choices for efficient power conversion. Over the past decade, several power converters have been developed and commercialized in the form of standard and customized products that power a wide range of industrial applications. Currently, the modular multilevel converter is a fast-growing technology and has received wide acceptance from both industry and academia. Providing adequate technical background for graduate- and undergraduate-level teaching, this book includes a comprehensive analysis of the conventional and advanced modular multilevel converters employed in motor drives, HVDC systems, and power quality improvement. Modular Multilevel Converters: Analysis, Control, and Applications provides an overview of high-power converters, reference frame theory, classical control methods, pulse width modulation schemes, advanced model predictive control methods, modeling of ac drives, advanced drive control schemes, modeling and control of HVDC systems, active and reactive power control, power quality problems, reactive power, harmonics and unbalance compensation, modeling and control of static synchronous compensators (STATCOM) and unified power quality compensators. Furthermore, this book: Explores technical challenges, modeling, and control of various modular multilevel converters in a wide range of applications such as transformer and transformerless motor drives, high voltage direct current transmission systems, and power quality improvement Reflects the latest developments in high-power converters in medium-voltage motor drive systems Offers design guidance with tables, charts graphs, and MATLAB simulations Modular Multilevel Converters: Analysis, Control, and Applications is a valuable reference book for academic researchers, practicing engineers, and other professionals in the field of high power converters. It also serves well as a textbook for graduate-level students.

Three-dimensional Integrated Circuit Design Academic Press

Discovered in 1880, piezoelectric materials play a key role in an innovative market of several billions of dollars. Recent advances in applications derive from new materials and their development, as well as to new market requirements. With the exception of quartz, ferroelectric materials are used for they offer both high efficiency and sufficient versatility to meet adequately the multidimensional requirements for application. Consequently, strong emphasis is placed on tailoring materials and technology, whether one deals with single crystals, ceramics or plastic materials. Tailoring requires a basic understanding of both physical principles and technical possibilities and limitations. This report elucidates these developments by a broad spectrum of examples, comprising ultrasound in medicine and defence industry, frequency control, signal processing by SAW-devices, sensors, actuators, including novel valves for modern motor management. It delivers a mutual fertilization of technology push and market pull that should be of interest not only to materials scientists or engineers but also to managers who dedicate themselves to a sound future-oriented R&D policy.