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KEY=CAT - DIAMOND FRENCH

MOSFET Modeling & BSIM3 User’s Guide

Springer Science & Business Media Circuit simulation is essential in integrated circuit design, and the accuracy of circuit simulation depends on the accuracy of the transistor model. BSIM3v3 (BSIM for Berkeley Short-channel IGFET Model) has been selected as the first MOSFET model for standardization by the Compact Model Council, a consortium of leading companies in semiconductor and design tools. In the next few years, many fabless and integrated semiconductor companies are expected to switch from dozens of other MOSFET models to BSIM3. This will require many device engineers and most circuit designers to learn the basics of BSIM3. MOSFET Modeling & BSIM3 User's Guide explains the detailed physical effects that are important in modeling MOSFETs, and presents the derivations of compact model expressions so that users can understand the physical meaning of the model equations and parameters. It is the first book devoted to BSIM3. It treats the BSIM3 model in detail as used in digital, analog and RF circuit design. It covers the complete set of models, i.e., I-V model, capacitance model, noise model, parasitics model, substrate current model, temperature effect model and non quasi-static model. MOSFET Modeling & BSIM3 User's Guide not only addresses the device modeling issues but also provides a user's guide to the device or circuit design engineers who use the BSIM3 model in digital/analog circuit design, RF modeling, statistical modeling, and technology prediction. This book is written for circuit designers and device engineers, as well as device scientists worldwide. It is also suitable as a reference for graduate courses and courses in circuit design or device modelling. Furthermore, it can be used as a textbook for industry courses devoted to BSIM3. MOSFET Modeling & BSIM3 User's Guide is comprehensive and practical. It is balanced between the background information and advanced discussion of BSIM3. It is helpful to experts and students alike.

RF and Microwave Circuits, Measurements, and Modeling

CRC Press Highlighting the challenges RF and microwave circuit designers face in their day-to-day tasks, RF and Microwave Circuits, Measurements, and Modeling explores RF and microwave circuit designs in terms of performance and critical design specifications. The book discusses transmitters and receivers first in terms of functional circuit block and then examines each block individually. Separate articles consider fundamental amplifier issues, low noise amplifiers, power amplifiers for handset applications and high power, power amplifiers. Additional chapters cover other circuit functions including oscillators, mixers, modulators, phase locked loops, filters and multiplexers. New chapters discuss high-power PAs, bit error rate testing, and nonlinear modeling of heterojunction bipolar transistors, while other chapters feature new and updated material that reflects recent progress in such areas as high-volume testing, transmitters and receivers, and CAD tools. The unique behavior and requirements associated with RF and microwave systems establishes a need for unique and complex models and simulation tools. The required toolset for a microwave circuit designer includes unique device models, both 2D and 3D electromagnetic simulators, as well as frequency domain based small signal and large signal circuit and system simulators. This unique suite of tools requires a design procedure that is also distinctive. This book examines not only the distinct design tools of the microwave circuit designer, but also the design procedures that must be followed to use them effectively.

Groundwater Reactive Transport Models

Bentham Science Publishers Ground water reactive transport models are useful to assess and quantify contaminant precipitation, absorption and migration in subsurface media. Many ground water reactive transport models available today are characterized by varying complexities, strengths, and weaknesses. Selecting accurate, efficient models can be a challenging task. This ebook addresses the needs, issues and challenges relevant to selecting a ground water reactive transport model to evaluate natural attenuation and alternative remediation schemes. It should serve as a handy guide for water resource managers seeking to ach.

A Precipitation-runoff Model for Analysis of the Effects of Water Withdrawals on Streamflow, Ipswich River Basin, Massachusetts

...Water withdrawals from the Ipswich River Basin affect aquatic habitat, water quality, and recreational use of the river; describes the development, calibration and limitations of a precipitation-runoff model, and simulations made with the model to determine the effects of water use and land use patterns on streamflows; also describes the study area, the data used in the model and the methods used to obtain those data and the methods used to estimate the effects of the pumping of wells on streamflow...

Device Modeling for Analog and RF CMOS Circuit Design

John Wiley & Sons Bridges the gap between device modelling and analog circuit design. Includes dedicated software enabling actual circuit design. Covers the three significant models: BSIM3, Model 9 &, and EKV. Presents practical guidance on device development and circuit implementation. The authors offer a combination of extensive academic and industrial experience.

Bioaccumulation and Aquatic System Simulator (BASS) user's manual

DIANE Publishing

Security and Privacy in User Modeling

Springer Science & Business Media User-adaptive (or "personalized") systems take individual character istics of their current users into account and adapt their behavior ac cordingly. Several empirical studies demonstrate their benefits in areas like education and training, online help for complex software, dynamic information delivery, provision of computer access to people with dis abilities, and to some extent information retrieval. Recently, personal ized systems have also started to appear on the World Wide Web where they are primarily used for customer relationship management. The aim hereby is to provide value to customers by serving them as individuals and by offering them a unique personal relationship with the business. Studies show that web visitors indeed spend considerably more time at personalized than at regular portals and view considerably more web pages. Personalized sites in general also draw more visitors and turn more visitors into buyers. Personalization therefore would look like a win-win technology for both consumers and online businesses. However, it has a major down side: in order to be able to exhibit personalized behavior, user-adaptive systems have to collect considerable amounts of personal data and "lay them in stock" for possible future usage. Moreover, the collection of information about the user is often performed in a relatively inconspic uous manner (such as by monitoring users' web navigation behavior), in order not to distract users from their tasks.

The Human-Computer Interaction Handbook

Fundamentals, Evolving Technologies and Emerging Applications, Third Editiion

CRC Press The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications is a comprehensive survey of this fast-paced field that is of interest to all HCI practitioners, educators, consultants, and researchers. This includes computer scientists; industrial, electrical, and computer engineers; cognitive scientists; exp

Handbook of Metallurgical Process Design

CRC Press Reviewing an extensive array of procedures in hot and cold forming, casting, heat treatment, machining, and surface engineering of steel and aluminum, this comprehensive reference explores a vast range of processes relating to metallurgical component design-enhancing the production and the properties of engineered components while reducing manufacturing costs. It surveys the role of computer simulation in alloy design and its impact on material structure and mechanical properties such as fatigue and wear. It also discusses alloy design for various materials, including steel, iron, aluminum, magnesium, titanium, super alloy compositions and copper.

Percent Canopy Cover and Stand Structure Statistics from the Forest Vegetation Simulator

Handbook of Structural Equation Modeling

Guilford Publications The first comprehensive structural equation modeling (SEM) handbook, this accessible volume presents both the mechanics of SEM and specific SEM strategies and applications. The editor, contributors, and editorial advisory board are leading methodologists who have organized the book to move from simpler material to more statistically complex modeling approaches. Sections cover the foundations of SEM; statistical underpinnings, from assumptions to model modifications; steps in implementation, from data preparation through writing the SEM report; and basic and advanced applications, including new and emerging topics in SEM. Each chapter provides conceptually oriented descriptions, fully explicated analyses, and engaging examples that reveal modeling possibilities for use with readers' data. Many of the chapters also include access to data and syntax files at the companion website, allowing readers to try their hands at reproducing the authors' results.

General Technical Report RMRS

Conceptual Modeling - ER '98

17th International Conference on Conceptual Modeling, Singapore, November 16-19, 1998, Proceedings

Springer Science & Business Media This volume constitutes the refereed proceedings of the 17th International Conference on Conceptual Modeling, ER '98, held in Singapore, in November 1998. The 32 revised full papers presented were carefully reviewed and selected from a total of 95 submissions. The book is divided into chapters on conceptual modeling

and design, user interface modeling, information retrieval on the Web, semantics and constraints, conceptual modeling tools, quality and reliability metrics, industrial experience in conceptual modeling, object-oriented database management systems, data warehousing, industrial case studies, object-oriented approaches.

User's Guide to the Regeneration Establishment Model

A Prognosis Model Extension

Public Roads

Human Computer Interaction Handbook

Fundamentals, Evolving Technologies, and Emerging Applications, Third Edition

CRC Press Winner of a 2013 CHOICE Outstanding Academic Title Award The third edition of a groundbreaking reference, The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications raises the bar for handbooks in this field. It is the largest, most complete compilation of HCI theories, principles, advances, case st

Flash Floods in Egypt

Springer Nature This book presents the latest findings and information on flash floods in Egypt and presents case studies from various regions throughout the country. The quantitative and qualitative dimensions of these flash floods are discussed on the basis of statistical analysis and field observations. The book covers a broad and diverse range of topics, including evaluation of drainage basins, early warning systems, flash flood investigations, hydrologic simulation, GIS and flash floods, environmental flash floods, hazard management, flash flood monitoring, assessment of flood risks, flash flood vulnerability and mitigation, management of flash floods, prediction and mitigation, and rainfall harvesting and utilization. The book offers a unique source of information on virtually all dimensions of flash floods in Egypt and their environmental impacts, and combines analysis, observations, and experts' hands-on field experience. It also supports the assessment and management of flash floods in Egypt, a country currently facing many challenges in implementing sustainable development plans, mainly because of the severe water scarcity the arid country facing.

Official Gazette of the United States Patent and Trademark Office

Trademarks

Nitrogen Processes in Arable and Forest Soils in the Nordic Countries

Field-scale Modelling and Experiments

Nordic Council of Ministers

Charlotte/Douglas International Airport

Environmental Impact Statement

SOC (System-on-a-Chip) Testing for Plug and Play Test Automation

Springer Science & Business Media Various aspects of system-on-a-chip (SOC) integrated circuit testing are addressed in 13 papers on test planning, access, and scheduling; test data compression; and interconnect, crosstalk, and signal integrity. Topics include concurrent test of core-based SOC design and testing for interconnect crosstalk defects using on-chip embedded processor cores. The editor is affiliated with Duke University. The book is reprinted from a Special Issue of the Journal of Electronic Testing, vol. 18, nos. 4 & 5. There is no subject index. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com).

Federal Probation

Handbook of Digital Human Modeling

Research for Applied Ergonomics and Human Factors Engineering

CRC Press The rapid introduction of sophisticated computers, services, telecommunications systems, and manufacturing systems has caused a major shift in the way people use and work with technology. It is not surprising that computer-aided modeling has emerged as a promising method for ensuring products meet the requirements of the consumer. The Handbook of Digital Human Modeling provides comprehensive coverage of the theory, tools, and methods to effectively achieve this objective. The 56 chapters in this book, written by 113 contributing authorities from Canada, China, France, Germany, the Netherlands, Poland, Sweden, Taiwan, UK, and the US, provide a wealth of international knowledge and guidelines. They cover applications in advanced manufacturing, aerospace, automotive, data visualization and simulation, defense and military systems, design for impaired mobility, healthcare and medicine, information systems, and product design. The text elucidates tools to help evaluate product and work design while reducing the need for physical prototyping. Additional software and demonstration materials on the CRC Press web site include a never-before-released 220-page step-by-step UGS-Siemens JackTM help manual developed at Purdue University. The current gap between capability to correctly predict outcomes and set expectation for new and existing products and processes affects human-system performance, market acceptance, product safety, and satisfaction at work. The handbook provides the fundamental concepts and tools for digital human modeling and simulation with a focus on its foundations in human factors and ergonomics. The tools identified and made available in this handbook help reduce the need for physical prototyping. They enable engineers to quantify acceptability and risk in design in terms of the human factors and ergonomics.

Field Programmable Logic and Applications

9th International Workshops, FPL'99, Glasgow, UK, August 30 - September 1, 1999,

Proceedings

Springer This book contains the papers presented at the 9th International Workshop on Field ProgrammableLogic and Applications (FPL'99), hosted by the University of Strathclyde in Glasgow, Scotland, August 30 – September 1, 1999. FPL'99 is the ninth in the series of annual FPL workshops. The FPL'99 programme committee has been fortunate to have received a large number of high-quality papers addressing a wide range of topics. From these, 33 papers have been selected for presentation at the workshop and a further 32 papers have been accepted for the poster sessions. A total of 65 papers from 20 countries are included in this volume. FPL is a subject area that attracts researchers from both electronic engine- ing and computer science. Whether we are engaged in research into soft ha- ware or hard software seems to be primarily a question of perspective. What is unquestionable is that the interaction of groups of researchers from di?erent backgrounds results in stimulating and productive research. As we prepare for the new millennium, the premier European forum for - searchers in ?eld programmable logic remains the FPL workshop. Next year the FPL series of workshopswill celebrate its tenth anniversary.The contribution of so many overseas researchers has been a particularly attractive feature of these events, giving them a truly international perspective, while the informal and convivial atmosphere that pervades the workshops have been their hallmark. We look forward to preserving these features in the future while continuing to expand the size and quality of the events.

Reference and Users Manuals for the Water Rights Analysis Package (WRAP)

Federal Register

Books in Print

Code of Federal Regulations

Containing a Codification of Documents of General Applicability and Future Effect as of December 31, 1948, with Ancillaries and Index

Stormwater Collection Systems Design Handbook

McGraw Hill Professional * A comprehensive overview of stormwater and wastewater collection methods from around the world, written by leading experts in the field * Includes detailed analysis of system designs, operation, maintenance and rehabilitation * The most complete reference available on the subject

Commercial Wireless Circuits and Components Handbook

CRC Press A comprehensive source for microwave and wireless circuit design, the Commercial Wireless Circuits and Components Handbook reviews the fundamentals of transmitters and receivers, then presents detailed chapters on individual circuit types. It also covers packaging, large and small signal characterization, and high volume testing techniques for both devices and circuits. This handbook not only provides important information for engineers working with wireless RF or microwave circuitry, it also serves as an excellent source for those requiring information outside of their area of expertise, such as managers, marketers, and technical support workers who need a better understanding of the fields driving

their decisions.

The Code of Federal Regulations of the United States of America

The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

Dam Safety

Proceedings of the International Symposium on New Trends and Guidelines on Dam Safety, Barcelona, Spain, 17-19 June 1998

A General Conceptual Approach to Modeling the Livestock Sector

Application to the Japanese Swine-pork Sector Model with Analysis of the "no Gate Price Policy Scenario"

Model Validation for Power System Frequency Analysis

Springer This book examines the role of model validation of power system planning and operation to optimize its performance in terms of frequency control. It presents the detailed model validation for the Iranian Power Grid system, where the frequency performance was analysed and improved using existing and new standard models to identify the influencing parameters. Although the model validation was employed for a specific, practical large-scale system, the framework (concepts, methods, and formulations) can be used for by any type of power system. As such, this book describing a generalized framework for model validation with a real case study is useful for both power industry experts and academia.

Handbook of Object Technology

CRC Press The object oriented paradigm has become one of the dominant forces in the computing world. According to a recent survey, by the year 2000, more than 80% of development organizations are expected to use object technology as the basis for their distributed development strategies. Handbook of Object Technology encompasses the entire spectrum of disciplines and topics related to this rapidly expanding field - outlining emerging technologies, latest advances, current trends, new specifications, and ongoing research. The handbook divides into 13 sections, each containing chapters related to that specific discipline. Up-to-date, non-abstract information provides the reader with practical, useful knowledge - directly applicable to the understanding and improvement of the reader's job or the area of interest related to this technology. Handbook of Object Technology discusses: the processes, notation, and tools for classical OO methodologies as well as information on future methodologies prevalent and emerging OO languages standards and specifications frameworks and patterns databases metrics business objects intranets analysis/design tools client/server application development environments

Characterization of Water Quality and Simulation of Temperature, Nutrients, Biochemical Oxygen Demand, and Dissolved Oxygen in the Wateree River, South Carolina, 1996-98

Water-resources Investigations Report

1995-2000

International Encyclopedia of Ergonomics and Human Factors, Second Edition - 3 Volume Set

CRC Press The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind. It was also a winner of the Best Reference Award 2002 from the Engineering Libraries Division, American Society of Engineering Education, USA, and the Outstanding Academic Title 2002 from Choice Magazine. Not content to rest on his laurels, human factors and ergonomics expert Professor Waldemar Karwowski has overhauled his standard-setting resource, incorporating coverage of tried and true methods, fundamental principles, and major paradigm shifts in philosophy, thought, and design. Demonstrating the truly interdisciplinary nature of this field, these changes make the second edition even more comprehensive, more informative, more, in a word, encyclopedic. Keeping the format popularized by the first edition, the new edition has been completely revised and updated. Divided into 13 sections and organized alphabetically within each section, the entries provide a clear and simple outline of the topics as well as precise and practical information. The book reviews applications, tools, and innovative concepts related to ergonomic research. Technical terms are defined (where possible) within entries as well as in a glossary. Students and professionals will find this format invaluable, whether they have ergonomics, engineering, computing, or psychology backgrounds. Experts and researchers will also find it an excellent source of information on areas beyond the range of their direct interests.

CARD Technical Report

Simulation Modeling and Analysis with ARENA

Elsevier Simulation Modeling and Analysis with Arena is a highly readable textbook which treats the essentials of the Monte Carlo discrete-event simulation methodology, and does so in the context of a popular Arena simulation environment. It treats simulation modeling as an in-vitro laboratory that facilitates the understanding of complex systems and experimentation with what-if scenarios in order to estimate their performance metrics. The book contains chapters on the simulation modeling methodology and the underpinnings of discrete-event systems, as well as the relevant underlying probability, statistics, stochastic processes, input analysis, model validation and output analysis. All simulation-related concepts are illustrated in numerous Arena examples, encompassing production lines, manufacturing and inventory systems, transportation systems, and computer information systems in networked settings. · Introduces the concept of discrete event Monte Carlo simulation, the most commonly used methodology for modeling and analysis of complex systems · Covers essential workings of the popular animated simulation language, ARENA, including set-up, design parameters, input data, and output analysis, along with a wide

variety of sample model applications from production lines to transportation systems · Reviews elements of statistics, probability, and stochastic processes relevant to simulation modeling * Ample end-of-chapter problems and full Solutions Manual * Includes CD with sample ARENA modeling programs