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Characterization and Modeling of Digital Circuits: Sharma ...

Characterization and Modeling of Digital Circuits Rohit Sharma. This book provides a comprehensive overview of characterization techniques and advanced modeling of VLSI circuits for modern and advanced process nodes. Intended audience includes research professionals, graduate students, circuit and PDK designers, characterization engineers, CAD ...

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Dark current is an unwanted source of noise in images produced by digital imagers, the de facto standard of imaging. The two most common types of digital imager architectures, Charged-Coupled Devices (CCDs) and Complementary Metal-Oxide-Semiconductor (CMOS), are both prone to this noise source. To accurately reflect the information from light signals this noise must be removed.

"Characterization and Modeling of Nonlinear Dark Current ...
A protocol for LWR characterization is described using these three parameters. Furthermore, LWR modeling using methods for generating lines similar to the experimental ones is investigated. The aim is to control LWR deliberately for better input to device simulators and solving characterization problems.

Characterization and modeling of line width roughness (LWR)
CAD modeling (left), traditional polygon modeling (middle) and sculpting (right) 3D sculpting is a digital equivalent to traditional clay

sculpting. You start with a piece of (digital) clay that you can push, pull, smooth, grab, pinch or otherwise manipulate.

3D sculpting - Modeling characters and organic shapes for ...

Bardaweel, H, Richards, R, Weiss, L, Richards, C, & Anderson, M. "Characterization and Modeling of the Dynamic Behavior of a Liquid-Vapor Phase Change Actuator." Proceedings of the ASME 2007 International Mechanical Engineering Congress and Exposition. Volume 11: Micro and Nano Systems, Parts A and B. Seattle, Washington, USA.

Characterization and Modeling of the Dynamic Behavior of a ...

blogs, digital implementation, In the last few blogs of this series, we have examined some unique features of Cadence ® Liberate TM Characterization, Liberate MX, Liberate AMS, Liberate LV, and Liberate Trio.How about looking into the Liberate Variety TM statistical characterization solution this time?. As per Liberty specification, Liberty Variation Format (LVF) modeling is always done at ...

Library Characterization Tidbits: Overriding the One-Sigma ...

@article{osti_1430604, title = {Temperature-Dependent Characterization, Modeling, and Switching Speed-Limitation Analysis of Third-Generation 10-kV SiC MOSFET}, author = {Ji, Shiqi and Zheng, Sheng and Wang, Fei and Tolbert, Leon M.}, abstractNote = {The temperature-dependent characteristics of the third-generation 10-kV/20-A SiC MOSFET including the static characteristics and switching ...

Temperature-Dependent Characterization, Modeling, and ...

3D Modeling For Beginners. This is the newest book in my list but it ' s also a very relevant guide for older software. 3D Modeling For Beginners spans 240 pages with a dozen chapters on all the foundations of 3D digital sculpting. The early chapters explain the basics of this process and why entertainment artists should learn modeling.

Best 3D Modeling & Digital Sculpting Books

The recently developed mechanistic-empirical pavement design guide (MEPDG, also known as Pavement M-E design method) uses the nationally calibrated, binder viscosity-based dynamic modulus predictive model for the design and analysis of asphalt pavements. In this study, this model is assessed for its appropriateness for asphalt-aggregate mixtures typically used in New Mexico.

This book provides a comprehensive overview of characterization techniques and advanced modeling of VLSI circuits for modern and advanced process nodes for timing, power, noise and variation models. Intended audience includes research professionals, graduate students, circuit and PDK designers, characterization engineers, CAD developers, managers, mentors, and the merely curious. It is organized to serve as a compendium to a beginner, a ready reference to intermediate and source for an expert.

This book provides comprehensive overview of characterization techniques and advanced modeling of VLSI circuits for modern and advanced process nodes up to 10nm. Intended audience includes research professionals, graduate students, circuit and PDK designers, characterization engineers, CAD developers, managers, mentors, and the merely curious. It is organized to serve as a compendium to a beginner, a ready reference to intermediate and source for an expert on the topics mentioned within.

This book is a comprehensive exposition of FET modeling, and is a must-have resource for seasoned professionals and new graduates in the RF and microwave power amplifier design and modeling community. In it, you will find descriptions of characterization and measurement techniques, analysis methods, and the simulator implementation, model verification and validation procedures that are needed to produce a transistor model that can be used with confidence by the circuit designer. Written by semiconductor industry professionals with many years' device modeling experience in LDMOS and III-V technologies, this was the first book to address the modeling requirements specific to high-power RF transistors. A technology-independent approach is described, addressing thermal effects, scaling issues, nonlinear modeling, and in-package matching networks. These are illustrated using the current market-leading high-power RF technology, LDMOS, as well as with III-V power devices.

Rather than only being a complication to dark current correction, the presence of such pixels, and the model explaining their behavior, presents an opportunity to obtain information, such as the depth of these recombination-generation sites, which will aid in refining manufacturing processes for digital imagers.

This is the definitive guide to X-parameters, written by the original inventors and developers of this powerful new paradigm for nonlinear RF and microwave components and systems. Learn how to use X-parameters to overcome intricate problems in nonlinear RF and microwave engineering. The general theory behind X-parameters is carefully and intuitively introduced, and then simplified down to specific, practical cases, providing you with useful approximations that will greatly reduce the complexity of measuring, modeling and designing for nonlinear regimes of operation. Containing real-world case studies, definitions of standard symbols and notation, detailed derivations within the appendices, and exercises with solutions, this is the definitive stand-alone reference for researchers, engineers, scientists and students looking to remain on the cutting-edge of RF and microwave engineering.

Applications of Viscoelasticity: Bituminous Materials Characterization and Modeling starts with an introduction to the theory of viscoelasticity, emphasizing its importance to various applications in material characterization and modeling. It next looks at constitutive viscoelastic functions, outlines basic equations for different loading conditions, and introduces the Boltzmann superposition principle, relaxation modulus, and creep compliance. Mechanical models, including integer-order and fractional-order are studied next, featuring real experimentation data alongside the benefits and drawbacks of using each model in various real-world scenarios. The book then covers the correspondence principle, followed by time–temperature superposition, featuring a simple procedure to construct a real master curve and challenges that might be encountered. The concluding chapters cover the Hopkins and Hamming, Park and Kim, and General Power law methods for interconversion of constitutive viscoelastic functions, applications of viscoelasticity for experimental tests, and incremental form of viscoelastic relations for numerical modeling. The book also includes supplementary codes that users can duplicate and use in their own work. Takes an applied approach to material viscoelasticity, explaining complicated viscoelastic equations and principles Presents examples of those equations and principles being applied to common problems in realworld settings Covers constitutive viscoelastic functions, including relaxation modulus and creep compliance Outlines the construction of a master curve of viscoelastic material considering time–temperature superposition Couples the correspondence principle with common viscoelastic experiments, such as threepoint bending beam, axial and torsional bar, and dynamic shear rheometer Provides supplementary codes

Earth science is becoming increasingly quantitative in the digital age. Quantification of geoscience and engineering problems underpins many of the applications of big data and artificial intelligence. This book presents quantitative geosciences in three parts. Part 1 presents data analytics using probability, statistical and machine-learning methods. Part 2 covers reservoir characterization using several geoscience disciplines: including geology, geophysics, petrophysics and geostatistics. Part 3 treats reservoir modeling, resource evaluation and uncertainty analysis using integrated geoscience, engineering and geostatistical methods. As the petroleum industry is heading towards operating oil fields digitally, a multidisciplinary skillset is a must for geoscientists who need to use data analytics to resolve inconsistencies in various sources of data, model reservoir properties, evaluate uncertainties, and quantify risk for decision making. This book intends to serve as a bridge for advancing the multidisciplinary integration for digital fields. The goal is to move beyond using quantitative methods individually to an integrated descriptive-quantitative analysis. In big data, everything tells us something, but nothing tells us everything. This book emphasizes the integrated, multidisciplinary solutions for practical problems in resource evaluation and field development.

This book provides a comprehensive review of the state-of-the-art in the development of new and innovative materials, and of advanced modeling and characterization methods for nanoscale CMOS devices. Leading global industry bodies including the International Technology Roadmap for Semiconductors (ITRS) have created a forecast of performance improvements that will be delivered in the foreseeable future – in the form of a roadmap that will lead to a substantial enlargement in the number of materials, technologies and device architectures used in CMOS devices. This book addresses the field of materials development, which has been the subject of a major research drive aimed at finding new ways to enhance the performance of semiconductor technologies. It covers three areas that will each have a dramatic impact on the development of future CMOS devices: global and local strained and alternative materials for high speed channels on bulk substrate

and insulator; very low access resistance; and various high dielectric constant gate stacks for power scaling. The book also provides information on the most appropriate modeling and simulation methods for electrical properties of advanced MOSFETs, including ballistic transport, gate leakage, atomistic simulation, and compact models for single and multi-gate devices, nanowire and carbon-based FETs. Finally, the book presents an in-depth investigation of the main nanocharacterization techniques that can be used for an accurate determination of transport parameters, interface defects, channel strain as well as RF properties, including capacitance-conductance, improved split C-V, magnetoresistance, charge pumping, low frequency noise, and Raman spectroscopy.