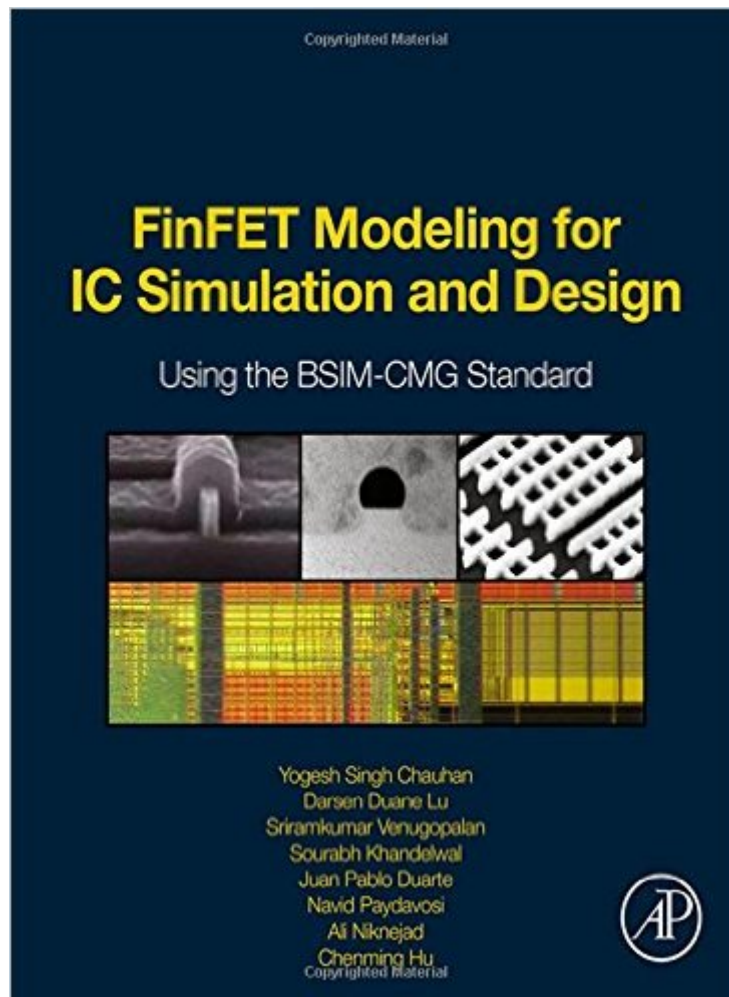


The book was found

FinFET Modeling For IC Simulation And Design: Using The BSIM-CMG Standard



Synopsis

This book is the first to explain FinFET modeling for IC simulation and the industry standard “BSIM-CMG” - describing the rush in demand for advancing the technology from planar to 3D architecture, as now enabled by the approved industry standard. The book gives a strong foundation on the physics and operation of FinFET, details aspects of the BSIM-CMG model such as surface potential, charge and current calculations, and includes a dedicated chapter on parameter extraction procedures, providing a step-by-step approach for the efficient extraction of model parameters. With this book you will learn: Why you should use FinFET The physics and operation of FinFET Details of the FinFET standard model (BSIM-CMG) Parameter extraction in BSIM-CMG FinFET circuit design and simulation Authored by the lead inventor and developer of FinFET, and developers of the BSIM-CM standard model, providing an experts’™ insight into the specifications of the standard The first book on the industry-standard FinFET model - BSIM-CMG

Book Information

Hardcover: 304 pages

Publisher: Academic Press; 1 edition (March 4, 2015)

Language: English

ISBN-10: 0124200311

ISBN-13: 978-0124200319

Product Dimensions: 7.7 x 0.8 x 9.3 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars See all reviews (1 customer review)

Best Sellers Rank: #1,625,543 in Books (See Top 100 in Books) #55 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Transistors #209 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Integrated #330 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design > Products

Customer Reviews

Really nice book, one of the very few I would recommend. It is written by original authors of the model and is NOT just copy-and-paste from Berkeley’s manual. Another one, and no less valuable asset, is on level=54 (planar MOSFET), by (notice same Prof. Hu) Weidong Liu and Chenming Hu, BSIM4 and MOSFET modeling for IC simulation, World Scientific, 2011. Actually, these 2 books are complimentary, since the FinFET’s BSIM-CMG is based upon the BSIM4 which is explained in detail

by Weidong and Prof. Hu in the latter book.

[Download to continue reading...](#)

FinFET Modeling for IC Simulation and Design: Using the BSIM-CMG Standard Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences (Modeling and Simulation in Science, Engineering and Technology) Switched Reluctance Motor Drives: Modeling, Simulation, Analysis, Design, and Applications (Industrial Electronics) Analog Design and Simulation using OrCAD Capture and PSpice Mosfet Modeling for VLSI Simulation: Theory And Practice (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology) Introduction to Modeling and Simulation of Technical and Physical Systems with Modelica Modeling and Simulation in Medicine and the Life Sciences (Texts in Applied Mathematics) Simulation, Second Edition: Programming Methods and Applications (Statistical Modeling and Decision Science) Introduction to Device Modeling and Circuit Simulation Polymer Processing: Modeling and Simulation Applied Groundwater Modeling, Second Edition: Simulation of Flow and Advective Transport Simulation for Designing Clinical Trials: A Pharmacokinetic-Pharmacodynamic Modeling Perspective (Drugs and the Pharmaceutical Sciences) Modeling Risk, + DVD: Applying Monte Carlo Risk Simulation, Strategic Real Options, Stochastic Forecasting, and Portfolio Optimization Dynamic Systems: Modeling, Simulation, and Control "The Handbook of Nanotechnology. Nanometer Structures: Theory, Modeling, and Simulation (SPIE Press Monograph Vol. PM129)" Aircraft Dynamics: From Modeling to Simulation Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling Process Simulation Using WITNESS Microsoft Excel 2013 Data Analysis and Business Modeling: Data Analysis and Business Modeling (Introducing) Introduction to the Numerical Modeling of Groundwater and Geothermal Systems: Fundamentals of Mass, Energy and Solute Transport in Poroelastic Rocks (Multiphysics Modeling)

[Dmca](#)