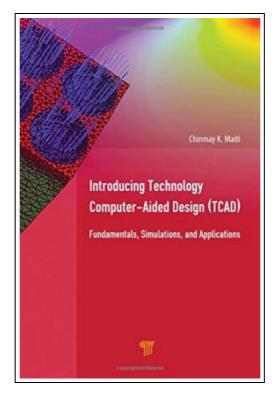
Introducing Technology Computer-Aided Design (TCAD): Fundamentals, Simulations and Applications (Hardback)



Filesize: 6.51 MB

Reviews

This is actually the greatest publication i have go through right up until now. I really could comprehended every little thing using this composed e book. I realized this book from my i and dad advised this ebook to learn.

(Jimmie Schmidt I)

INTRODUCING TECHNOLOGY COMPUTER-AIDED DESIGN (TCAD): FUNDAMENTALS, SIMULATIONS AND APPLICATIONS (HARDBACK)



Pan Stanford Publishing Pte Ltd, Singapore, 2017. Hardback. Condition: New. Language: English. Brand New Book. This might be the first book that deals mostly with the 3D technology computer-aided design (TCAD) simulations of major state-of-the-art stress- and strain-engineered advanced semiconductor devices: MOSFETS, BJTS, HBTS, nonclassical MOS devices, finFETS, silicon-germanium hetero-FETS, solar cells, power devices, and memory devices. The book focuses on how to set up 3D TCAD simulation tools, from mask layout to process and device simulation, including design for manufacturing (DFM), and from device modeling to SPICE parameter extraction. The book also offers an innovative and new approach to teaching the fundamentals of semiconductor process and device design using advanced TCAD simulations of various semiconductor structures. The simulation examples chosen are from the most popular devices in use today and provide useful technology and device physics insights. To extend the role of TCAD in today s advanced technology era, process compact modeling and DFM issues have been included for design-technology interface generation. Unique in approach, this book provides an integrated view of silicon technology and beyond-with emphasis on TCAD simulations. It is the first book to provide a web-based online laboratory for semiconductor device characterization and SPICE parameter extraction. It describes not only the manufacturing practice associated with the technologies used but also the underlying scientific basis for those technologies. Written from an engineering standpoint, this book provides the process design and simulation background needed to understand new and future technology development, process modeling, and design of nanoscale transistors. The book also advances the understanding and knowledge of modern IC design via TCAD, improves the quality in micro- and nanoelectronics RD, and supports the training of semiconductor specialists. It is intended as a textbook or reference for graduate students in



Read Introducing Technology Computer-Aided Design (TCAD): Fundamentals, Simulations and Applications (Hardback) Online Download PDF Introducing Technology Computer-Aided Design (TCAD): Fundamentals, Simulations and Applications (Hardback)

Other eBooks



Programming in D: Tutorial and Reference

Ali Cehreli, 2015. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****. The main aim of this book is to teach D to readers who are...

Download Book

>>



JA] early childhood parenting: 1-4 Genuine Special (Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: 2006-01-01 Pages: 179 Publisher: the China Pictorial Our book is all...

Download Book

>>



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

Download Book

>>



Children's Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand ******. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Download Book

»



Children's Educational Book Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]

 $\label{lem:condition:New.248 x 170 mm. Language:English . Brand New Book ****** Print on Demand ******. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...$

Download Book

»