

The book was found

Silicon VLSI Technology: Fundamentals, Practice And Modeling (Taschenbuch)



Book Information

Hardcover

Publisher: Prentice-Hall; Auflage: International Ed (2003)

ASIN: B000RXQLU8

Average Customer Review: 4.4 out of 5 stars Â Â See all reviews Â (10 customer reviews)

Best Sellers Rank: #1,008,777 in Books (See Top 100 in Books) #50 in Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > VLSI & ULSI

Customer Reviews

Before this book was published, Wolf & Tauber's book was the only good reference I had.

Plummer's new book has a thorough review of basic principles, very well updated parts on current manufacturing equipments (Wolf's book also has extensive coverage in this respect). The best part in my opinion is oxidation & diffusion parts where the authors are one of the leaders in current research. The book not only focuses on the specific details, but also gives an integrated view of the whole CMOS fabrication process, which I enjoyed a lot. I strongly recommend this book for students who want to learn basics of IC fabrication and also professional engineers who needs a good and well updated reference.

The best part of this book is that it covers modern fabrication technology. I expecially liked the approach of introducing the complete CMOS fabrication flow in the beginning. It puts a context to following chapters. It is what I call system level approach for slicon fabrication. There is also emphasis on measurement and simulutions that are missing from traditional books. Both these are essential to modern technology. Also, I was very happy to see details on manufacturing choices - e.g. LOCOS vs STI. Explanations are clear.This is a text book, therefore at times may seem too dense, but definitely worth it if you are a process engineer.

If you are a process engineer, or want to become one, this book is a must have. Like other reviewers said, chapter 2 lays a context for the chapter ahead. From being a zero in basics, I went to become a person who could answer questions regarding fundamentals with ease and comfort, and build on those basics easily. All of that credit certainly goes to the way Mr. Plummer laid-out his textbook. Simple explanations of complex fundamentals, supported with pictures, flow-diagrams and drawings make this book not only interesting to read, but also an essential reference.I would definitely recommend this book if you want to learn or strengthen your IC fabrication fundamentals!

Happy reading!

if your an electrical / process engineer, this is one of the must have books.

As a graduate student in electrical engineering, this is the best text book I have ever read. I had to read every chapter in this book last semester and I was impressed with how well written this book is. The concepts are explained using fundamental models without getting lost in the math. This book was a leisure to read and I would recommend it to anyone who wants to be able to explain how integrated circuits are made. This book also have a lot of useful charts, tables and formulas for reference!

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

Silicon VLSI Technology: Fundamentals, Practice and Modeling (Taschenbuch) Silicon VLSI Technology: Fundamentals, Practice, and Modeling Silicon Processing for the VLSI Era, Vol. 4: Deep-Submicron Process Technology Silicon VLSI Technology Silicon-on-Insulator Technology: Materials to VLSI 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) VLSI Test Principles and Architectures: Design for Testability (The Morgan Kaufmann Series in Systems on Silicon) VLSI Fabrication Principles: Silicon and Gallium Arsenide, 2nd Edition Digital VLSI Design with Verilog: A Textbook from Silicon Valley Polytechnic Institute Silicon Processing for the VLSI Era, Vol. 2: Process Integration Digital VLSI Design with Verilog: A Textbook from Silicon Valley Technical Institute Circuits, Interconnections, and Packaging for Vlsi (Addison-Wesley VLSI systems series) Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences (Modeling and Simulation in Science, Engineering and Technology) Introduction to the Numerical Modeling of Groundwater and Geothermal Systems: Fundamentals of Mass, Energy and Solute Transport in Poroelastic Rocks (Multiphysics Modeling) VLSI Analog Signal Processing Circuits: Algorithm, Architecture, Modeling, and Circuit Implementation Fundamentals of Modern VLSI Devices Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling Microsoft Excel 2013 Data Analysis and Business Modeling: Data Analysis and Business Modeling (Introducing) Geochemical Modeling of Groundwater, Vadose and Geothermal Systems (Multiphysics Modeling) 3D Modeling For Beginners: Learn everything you need to know about 3D Modeling!