

Chenming Hu Solutions

Engineering Education 1982

Mathematical Reviews 2006

Hot Carrier Reliability Simulation and Verification Bruce William McGaughy 1998

Portable Design 2000

Advanced VLSI Technology Cherry Bhargava

2022-09-01 The trend in design and manufacturing of very large-scale integrated (VLSI) circuits is towards smaller devices on increasing wafer dimensions. VLSI is the interdisciplinary science of the process of creating an integrated circuit (IC) by combining thousands of transistors into a single chip. VLSI design can reduce the area of the circuit, making it less expensive and requiring less power. The book gives an understanding of the underlying principles of the subject. It not only focuses on

circuit design process obeying VLSI rules but also on technological aspects of prototyping and fabrication. All the clocking processes, interconnects, and circuits of CMOS are explained in this book in an understandable format. The book provides contents on VLSI Physical Design Automation, Design of VLSI Devices and also its Impact on Physical Design. The book is intended as a reference book for senior undergraduate, first-year post graduate students, researchers as well as academicians in VLSI design, electronics & electrical engineering, and materials science. The basics and applications of VLSI design from STA, PDA and VLSI Testing along with FPGA based Prototyping are covered in a comprehensive manner. The latest technology used in VLSI design is discussed along with the

available tools for FPGA prototyping as well as ASIC design. Each unit contains technical questions with solutions at the end. Technical topics discussed in the book include: • Static Timing Analysis • CMOS Layout and Design rules • Physical Design Automation • Testing of VLSI Circuits • Software tools for Frontend and Backend design.

Semiconductor Devices and Technologies for Future Ultra Low Power Electronics D.

Nirmal 2021-12-09 This book covers the fundamentals and significance of 2-D materials and related semiconductor transistor technologies for the next-generation ultra low power applications. It provides comprehensive coverage on advanced low power transistors such as NCFETs, FinFETs, TFETs, and flexible transistors for future ultra low power applications owing to their better subthreshold swing and scalability. In addition, the text examines the use of field-effect transistors for biosensing applications and covers design

considerations and compact modeling of advanced low power transistors such as NCFETs, FinFETs, and TFETs. TCAD simulation examples are also provided. FEATURES Discusses the latest updates in the field of ultra low power semiconductor transistors Provides both experimental and analytical solutions for TFETs and NCFETs Presents synthesis and fabrication processes for FinFETs Reviews details on 2-D materials and 2-D transistors Explores the application of FETs for biosensing in the healthcare field This book is aimed at researchers, professionals, and graduate students in electrical engineering, electronics and communication engineering, electron devices, nanoelectronics and nanotechnology, microelectronics, and solid-state circuits. *FinFETs and Other Multi-Gate Transistors* J.-P. Colinge 2008 This book explains the physics and properties of multi-gate field-effect transistors (MuGFETs), how they are made and how circuit designers can use them to improve the

performances of integrated circuits. It covers the emergence of quantum effects due to the reduced size of the devices and describes the evolution of the MOS transistor from classical structures to SOI (silicon-on-insulator) and then to MuGFETs.

The British National Bibliography Arthur James Wells 2009

Micromachined Hot-filament Vacuum Devices Kirt Reed Williams 1997

Modern Semiconductor Devices for Integrated Circuits Chenming Hu 2010 For courses in semiconductor devices. Prepare your students for the semiconductor device technologies of today and tomorrow. Modern Semiconductor Devices for Integrated Circuits, First Edition introduces students to the world of modern semiconductor devices with an emphasis on integrated circuit applications. Written by an experienced teacher, researcher, and expert in industry practices, this succinct and forward-looking text is appropriate for both

undergraduate and graduate students, and serves as a suitable reference text for practicing engineers.

Solar and Switching Materials Carl M. Lampert 2001

International Aerospace Abstracts 1994

A Physical, Scalable and Efficient Deep-submicrometer MOSFET Model for VLSI Digital/analog Circuit Simulation Jian-hui Huang 1994

Scientific and Technical Aerospace Reports 1984

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

International Integrated Reliability Workshop Final Report 1999

The Engineering Index Annual 1989 Since its creation in 1884, Engineering Index has covered virtually every major engineering innovation from around the world. It serves as the historical

record of virtually every major engineering innovation of the 20th century. Recent content is a vital resource for current awareness, new production information, technological forecasting and competitive intelligence. The world's most comprehensive interdisciplinary engineering database, Engineering Index contains over 10.7 million records. Each year, over 500,000 new abstracts are added from over 5,000 scholarly journals, trade magazines, and conference proceedings. Coverage spans over 175 engineering disciplines from over 80 countries. Updated weekly.

Journal of Partial Differential Equations 1995
Dissertation Abstracts International 2003

Dr. Dobb's Journal 2000

Proceedings of Technical Papers 1999

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