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Handbook of Advanced Semiconductor Field Effect Transistors Ekta Goel
2025-12-16 Advance your understanding of semiconductor technology with this indispensable handbook, offering an in-depth look at the modeling, simulation, and fabrication of advanced nanoscale semiconductor field-effect transistors (FETs). Advanced nanoscale semiconductor field-effect transistors (FETs) represent a pivotal advancement in semiconductor technology, catering to the growing demand for energy-efficient low power electronic devices for emerging applications. This development has significantly impacted the electronics industry, particularly in the design and fabrication of integrated circuits for applications ranging from portable electronics to Internet of Things (IoT) devices. This

book provides a comprehensive look at the modelling, simulation, characterization, and fabrication of modern semiconductor FET transistors to improve performance in terms of reduced weight and size, improved subthreshold characteristics and switching performance, and lower power consumption. Handbook of Advanced Semiconductor Field Effect Transistors provides deep insight into the evolving possibilities and challenges of emerging advanced nanoscale FETs. By focusing on the fundamentals of nanoscience and expert knowledge on advanced nanoscale semiconductors, this book serves as a well-rounded guide for novices and professionals looking to innovate in this growing field.

[Digital Signal Processing with Field Programmable Gate Arrays](#) Uwe Meyer-Baese
2007-11-14 A practical and fascinating book on a topic at

the forefront of communications technology. Field-Programmable Gate Arrays (FPGAs) are on the verge of revolutionizing digital signal processing. Novel FPGA families are replacing ASICs and PDSs for front-end digital signal processing algorithms at an accelerating rate. The efficient implementation of these algorithms is the main goal of this book. It starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. Each of the book's chapter contains exercises. The VERILOG source code and a glossary are given in the appendices.

CAD/CAM Abstracts 1992

Chinese Journal of Electronics 2003

Linux Journal 2003-07

JPRS Report 1993-12

Index to IEEE Publications

Institute of Electrical and Electronics Engineers 1997
Issues for 1973- cover the entire IEEE technical literature.

Proceedings of World Conference on Artificial

Intelligence: Advances and Applications Ashish Kumar

Tripathi 2024-09-30 This book is a collection of outstanding research papers presented at the World Conference on Artificial Intelligence:

Advances and Applications (WCAIAA 2024), organized by Sir Padampat Singhania University, India, and is technically sponsored by Soft Computing Research Society during February 22-23, 2024.

The topics covered are agent-based systems, evolutionary algorithms, approximate reasoning, bioinformatics and computational biology, artificial intelligence in modeling and simulation, natural language processing, brain-machine interfaces, collective intelligence, computer vision and speech understanding, data mining, swarm intelligence, machine learning, human-computer interaction, intelligent sensor, devices and applications, and intelligent database systems.

Advanced Digital Logic Design
Sunggu Lee 2006 This textbook is intended to serve as a

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practical guide for the design of complex digital logic circuits such as digital control circuits, network interface circuits, pipelined arithmetic units, and RISC microprocessors. It is an advanced digital logic design textbook that emphasizes the use of synthesizable Verilog code and provides numerous fully worked-out practical design examples including a Universal Serial Bus interface, a pipelined multiply-accumulate unit, and a pipelined microprocessor for the ARM THUMB architecture.

Government Reports

Announcements & Index

1980-03

Data Sources 2000

Electrical & Electronics

Abstracts 1997

Advanced Signal Processing Algorithms, Architectures, and Implementations XIV

Franklin T. Luk 2004

Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide

prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Science Abstracts 1995

Digital VLSI Design and Simulation with Verilog

Suman Lata Tripathi

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HDL. The book includes the

foundational knowledge that is

crucial for beginners to grasp,

along with more advanced

coverage suitable for research

students working in the area of

VLSI design. Including digital

design information from the

switch level to FPGA-based

implementation using

hardware description language

(HDL), the distinguished

authors have created a one-

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stop resource for anyone in the field of VLSI design. Through eleven insightful chapters, you'll learn the concepts behind digital circuit design, including combinational and sequential circuit design fundamentals based on Boolean algebra. You'll also discover comprehensive treatments of topics like logic functionality of complex digital circuits with Verilog, using software simulators like ISim of Xilinx. The distinguished authors have included additional topics as well, like: A discussion of programming techniques in Verilog, including gate level modeling, model instantiation, dataflow modeling, and behavioral modeling A treatment of programmable and reconfigurable devices, including logic synthesis, introduction of PLDs, and the basics of FPGA architecture An introduction to System Verilog, including its distinct features and a comparison of Verilog with System Verilog A project based on Verilog HDLs, with real-time examples implemented using Verilog

code on an FPGA board Perfect for undergraduate and graduate students in electronics engineering and computer science engineering, Digital VLSI Design Problems and Solution with Verilog also has a place on the bookshelves of academic researchers and private industry professionals in these fields.

VHDL Programming Atul P. Godse 2020-12-01 The book is written for an undergraduate course on Hardware Description Languages. It provides comprehensive coverage of the VHDL (VHSIC-HDL, Very High Speed Integrated Circuit Hardware Description Language). It also introduces Verilog HDL. The book uses plain and lucid language to explain each topic. A large number of programming examples is the feature of this book. The book explains the structure of VHDL module, operators, data objects and data types used in VHDL. It describes various modeling styles - Behavioral Modeling, Data Flow Modeling, Structural Modeling, Switch-Level

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Modeling and Mixed-Type Descriptions, with important concepts involved in them. It also introduces the structure of the Verilog HDL module, operators, data types and compares VHDL and Verilog HDL.

International Journal of Electrical Engineering Education 1989

EDN, Electrical Design News 1996

Proceedings & Exhibition--
future Access 2005

Verilog Digital System Design : Register Transfer Level Synthesis, Testbench, and Verification Zainalabedin

Navabi 2005-10-03 This rigorous text shows electronics designers and students how to deploy Verilog in sophisticated digital systems design. The Second Edition is completely updated -- along with the many worked examples -- for Verilog 2001, new synthesis standards and coverage of the new OVI verification library.

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