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Power Electronics - Daniel W. Hart 2011

Power Electronics is intended to be an

introductory text in power electronics, primarily for

the undergraduate electrical engineering student.

The text is written for some flexibility in the order of the topics. Much of the text includes computer simulation using PSpice as a supplement to analytical circuit solution techniques.

Digital Design - M. Morris Mano 2002

For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. & Digital Design, fourth edition is a modern update of the classic authoritative text on digital design.& This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and

provides procedures suitable for a variety of digital applications.

Computer Logic Design - M. Morris Mano 1972

Computer Organization and Design - David A. Patterson 2011-10-26

"Presents the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies and I/O"--

Digital Design - M. Morris Mano 2013

For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer

Science department. Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Solutions Manual - Nivaldo J.. Tro 2009-05-01

Digital Design (cd) 3rd Edition - Mano 2006-02-01

Mathematical Methods for Physicists - George B. Arfken 2012-01-17

Table of Contents Mathematical Preliminaries
Determinants and Matrices Vector Analysis
Tensors and Differential Forms Vector Spaces
Eigenvalue Problems Ordinary Differential
Equations Partial Differential Equations Green's
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Topics in Analysis Gamma Function Bessel
Functions Legendre Functions Angular
Momentum Group Theory More Special Functions
Fourier Series Integral Transforms Periodic
Systems Integral Equations Mathieu Functions
Calculus of Variations Probability and Statistics.
Advanced Digital Design with the Verilog HDL -

Michael D. Ciletti 2011

This title builds on the student's background from a first course in logic design and focuses on developing, verifying, and synthesizing designs of digital circuits. The Verilog language is introduced in an integrated, but selective manner, only as needed to support design examples.

Proofs and Fundamentals - Ethan D. Bloch

2013-12-01

The aim of this book is to help students write mathematics better. Throughout it are large exercise sets well-integrated with the text and varying appropriately from easy to hard. Basic

issues are treated, and attention is given to small issues like not placing a mathematical symbol directly after a punctuation mark. And it provides many examples of what students should think and what they should write and how these two are often not the same.

Mechanical Engineering Principles - John Bird

2012-05-04

"Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several

engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--

Computer System Architecture - M. Morris Mano
2005-04-07

Fundamentals of Digital Logic with Verilog Design

- Stephen Brown 2007-05-14

Fundamentals of Digital Logic With Verilog Design teaches the basic design techniques for logic circuits. It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips. Fundamental concepts are illustrated by using small examples. Use of CAD software is well integrated into the book. A CD-ROM that contains Altera's Quartus CAD software comes free with every copy of the text. The CAD software provides automatic mapping of a design written in Verilog into Field

Programmable Gate Arrays (FPGAs) and Complex Programmable Logic Devices (CPLDs). Students will be able to try, firsthand, the book's Verilog examples (over 140) and homework problems. Engineers use Quartus CAD for designing, simulating, testing and implementing logic circuits. The version included with this text supports all major features of the commercial product and comes with a compiler for the IEEE standard Verilog language. Students will be able to: enter a design into the CAD system compile the design into a selected device simulate the functionality and timing of the resulting circuit

implement the designs in actual devices (using the school's laboratory facilities) Verilog is a complex language, so it is introduced gradually in the book. Each Verilog feature is presented as it becomes pertinent for the circuits being discussed. To teach the student to use the Quartus CAD, the book includes three tutorials.

Digital Design - John F. Wakerly 2002-07

Appropriate for a first or second course in digital logic design. This newly revised book blends academic precision and practical experience in an authoritative introduction to basic principles of digital design and practical requirements in both

board-level and VLSI systems. With over twenty years of experience in both industrial and university settings, the author covers the most widespread logic design practices while building a solid foundation of theoretical and engineering principles for students to use as they go forward in this fast moving field.

Digital Design with RTL Design, VHDL, and Verilog

- Frank Vahid 2010-03-09

An eagerly anticipated, up-to-date guide to essential digital design fundamentals Offering a modern, updated approach to digital design, this much-needed book reviews basic design

fundamentals before diving into specific details of design optimization. You begin with an examination of the low-levels of design, noting a clear distinction between design and gate-level minimization. The author then progresses to the key uses of digital design today, and how it is used to build high-performance alternatives to software. Offers a fresh, up-to-date approach to digital design, whereas most literature available is sorely outdated Progresses though low levels of design, making a clear distinction between design and gate-level minimization Addresses the various uses of digital design today Enables you

to gain a clearer understanding of applying digital design to your life With this book by your side, you'll gain a better understanding of how to apply the material in the book to real-world scenarios.

Digital Design - M. Morris Mano 2013

Digital Design, fifth edition is a modern update of the classic authoritative text on digital design.

This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

Communication Systems - Simon S. Haykin 1983

Graphic Design Solutions - Robin Landa

2018-02-08

GRAPHIC DESIGN SOLUTIONS, 6th EDITION, is the most comprehensive reference on graphic design for print and screen media. Author Robin Landa introduces principles of design and how they apply to the various graphic design disciplines, and major applications are explained and illustrated with professional work and diagrams. This text serves as a solid foundation for typographic design, advertising design and graphic design. In-depth coverage includes such topics as design principles, the design process,

concept generation, branding and visual identity, design for web and mobile, package design, portfolio development, social media, ad campaigns and more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

System Dynamics - Katsuhiko Ogata 2013-07-24

For junior-level courses in System Dynamics, offered in Mechanical Engineering and Aerospace Engineering departments. This text presents students with the basic theory and practice of system dynamics. It introduces the modeling of

dynamic systems and response analysis of these systems, with an introduction to the analysis and design of control systems.

Digital Design (Verilog) - Peter J. Ashenden

2007-10-24

Digital Design: An Embedded Systems Approach Using Verilog provides a foundation in digital design for students in computer engineering, electrical engineering and computer science courses. It takes an up-to-date and modern approach of presenting digital logic design as an activity in a larger systems design context. Rather than focus on aspects of digital design that have

little relevance in a realistic design context, this book concentrates on modern and evolving knowledge and design skills. Hardware description language (HDL)-based design and verification is emphasized--Verilog examples are used extensively throughout. By treating digital logic as part of embedded systems design, this book provides an understanding of the hardware needed in the analysis and design of systems comprising both hardware and software components. Includes a Web site with links to vendor tools, labs and tutorials. Presents digital logic design as an activity in a larger systems

design context Features extensive use of Verilog examples to demonstrate HDL (hardware description language) usage at the abstract behavioural level and register transfer level, as well as for low-level verification and verification environments Includes worked examples throughout to enhance the reader's understanding and retention of the material Companion Web site includes links to tools for FPGA design from Synplicity, Mentor Graphics, and Xilinx, Verilog source code for all the examples in the book, lecture slides, laboratory projects, and solutions to exercises

Introduction to Machine Learning, fourth edition -
Ethem Alpaydin 2020-03-24

A substantially revised fourth edition of a comprehensive textbook, including new coverage of recent advances in deep learning and neural networks. The goal of machine learning is to program computers to use example data or past experience to solve a given problem. Machine learning underlies such exciting new technologies as self-driving cars, speech recognition, and translation applications. This substantially revised fourth edition of a comprehensive, widely used machine learning textbook offers new coverage of

recent advances in the field in both theory and practice, including developments in deep learning and neural networks. The book covers a broad array of topics not usually included in introductory machine learning texts, including supervised learning, Bayesian decision theory, parametric methods, semiparametric methods, nonparametric methods, multivariate analysis, hidden Markov models, reinforcement learning, kernel machines, graphical models, Bayesian estimation, and statistical testing. The fourth edition offers a new chapter on deep learning that discusses training, regularizing, and structuring deep neural networks

such as convolutional and generative adversarial networks; new material in the chapter on reinforcement learning that covers the use of deep networks, the policy gradient methods, and deep reinforcement learning; new material in the chapter on multilayer perceptrons on autoencoders and the word2vec network; and discussion of a popular method of dimensionality reduction, t-SNE. New appendixes offer background material on linear algebra and optimization. End-of-chapter exercises help readers to apply concepts learned. Introduction to Machine Learning can be used in courses for

advanced undergraduate and graduate students and as a reference for professionals.

Digital Logic and Computer Design - M. Morris Mano 2017

This book presents the basic concepts used in the design and analysis of digital systems and introduces the principles of digital computer organization and design.

Logic and Computer Design Fundamentals - M. Morris Mano 2004

Featuring a strong emphasis on the fundamentals underlying contemporary logic design using hardware description languages, synthesis and

verification, this text focuses on the ever-evolving applications of basic computer design concepts.

Digital Logic Circuit Analysis and Design - Victor Peter Nelson 1995

For introductory digital logic design or computer engineering courses in electrical and computer engineering or computer science at the sophomore- or junior-level. Many recent texts place instructors in the difficult position of choosing between authoritative, state-of-the-art coverage and an approach that is highly supportive of student learning. This carefully developed text was widely praised by reviewers

for both its great clarity and its rigor. The book balances theory and practice in depth without getting bogged down in excessive technical or mathematical language and has abundant coverage of current topics of interest, such as programmable devices, computer-aided design, and testability. An unusually large number of illustrations, examples, and problems help students gain a solid sense of how theory underlies practice.

Logic and Computer Design Fundamentals - M. Morris Mano 2001

"Offering integrated coverage of both digital and

computer design, this text offers well-organized, concise, yet comprehensive content, presented from a contemporary engineering viewpoint. Understanding of the material is supported by clear explanations and a progressive development of examples ranging from sample combinatorial applications to a CISC architecture built upon a RISC core. A thorough coverage of traditional topics is combined with increased attention to computer-aided design, problem formulation, solution verification, and the building of problem-solving skills."--BOOK JACKET.

Engineering Circuit Analysis - Hayt 2011-09

Digital Systems - Ronald J. Tocci 1981

Computer Systems - Ata Elahi 2017-11-08

This textbook covers digital design, fundamentals of computer architecture, and assembly language. The book starts by introducing basic number systems, character coding, basic knowledge in digital design, and components of a computer. The book goes on to discuss information representation in computing; Boolean algebra and logic gates; sequential logic; input/output; and CPU performance. The author also covers ARM architecture, ARM instructions and ARM

assembly language which is used in a variety of devices such as cell phones, digital TV, automobiles, routers, and switches. The book contains a set of laboratory experiments related to digital design using Logisim software; in addition, each chapter features objectives, summaries, key terms, review questions and problems. The book is targeted to students majoring Computer Science, Information System and IT and follows the ACM/IEEE 2013 guidelines. • Comprehensive textbook covering digital design, computer architecture, and ARM architecture and assembly • Covers basic

number system and coding, basic knowledge in digital design, and components of a computer • Features laboratory exercises in addition to objectives, summaries, key terms, review questions, and problems in each chapter

Digital Systems Design Using Verilog - Charles Roth 2015-01-01

DIGITAL SYSTEMS DESIGN USING VERILOG integrates coverage of logic design principles, Verilog as a hardware design language, and FPGA implementation to help electrical and computer engineering students master the process of designing and testing new hardware

configurations. A Verilog equivalent of authors Roth and John's previous successful text using VHDL, this practical book presents Verilog constructs side-by-side with hardware, encouraging students to think in terms of desired hardware while writing synthesizable Verilog. Following a review of the basic concepts of logic design, the authors introduce the basics of Verilog using simple combinational circuit examples, followed by models for simple sequential circuits. Subsequent chapters ask readers to tackle more and more complex designs. Important Notice: Media content

referenced within the product description or the product text may not be available in the ebook version.

[Fundamentals of Digital Logic with Verilog Design](#)

- Stephen Brown 2013-03-15

Fundamentals of Digital Logic With Verilog Design teaches the basic design techniques for logic circuits. It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips. Fundamental concepts are illustrated by using small examples. Use of CAD software is well integrated into the book. A CD-ROM that contains Altera's Quartus CAD

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the book. Each Verilog feature is presented as it

becomes pertinent for the circuits being

discussed. To teach the student to use the

Quartus CAD, the book includes three tutorials.

Computer Organization and Design - John L.

Hennessy 1998

The performance of software systems is

dramatically affected by how well software designers understand the basic hardware technologies at work in a system. Similarly, hardware designers must understand the far-reaching effects their design decisions have on software applications. For readers in either category, this classic introduction to the field provides a look deep into the computer. It demonstrates the relationships between the software and hardware and focuses on the foundational concepts that are the basis for current computer design.

Digital Electronics 1 - Tertulien Ndjountche

2016-06-17

The omnipresence of electronic devices in our everyday lives has been accompanied by the downscaling of chip feature sizes and the ever increasing complexity of digital circuits. This book is devoted to the analysis and design of digital circuits, where the signal can assume only two possible logic levels. It deals with the basic principles and concepts of digital electronics. It addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to perform

functions and operations of Boolean algebra. Combinational logic circuits are characterized by outputs that depend only on the actual input values. Efficient techniques to derive logic equations are proposed together with methods of analysis and synthesis of combinational logic circuits. Each chapter is well structured and is supplemented by a selection of solved exercises covering logic design practices.

Computer Architecture - John L. Hennessy 2012

The computing world today is in the middle of a revolution: mobile clients and cloud computing have emerged as the dominant paradigms driving

programming and hardware innovation today. The Fifth Edition of Computer Architecture focuses on this dramatic shift, exploring the ways in which software and technology in the cloud are accessed by cell phones, tablets, laptops, and other mobile computing devices. Each chapter includes two real-world examples, one mobile and one datacenter, to illustrate this revolutionary change. Updated to cover the mobile computing revolution Emphasizes the two most important topics in architecture today: memory hierarchy and parallelism in all its forms. Develops common themes throughout each chapter: power,

performance, cost, dependability, protection, programming models, and emerging trends ("What's Next") Includes three review appendices in the printed text. Additional reference appendices are available online. Includes updated Case Studies and completely new exercises.

Digital VLSI Systems Design - Seetharaman Ramachandran 2007-06-14

This book provides step-by-step guidance on how to design VLSI systems using Verilog. It shows the way to design systems that are device, vendor and technology independent. Coverage presents new material and theory as well as

synthesis of recent work with complete Project Designs using industry standard CAD tools and FPGA boards. The reader is taken step by step through different designs, from implementing a single digital gate to a massive design consuming well over 100,000 gates. All the design codes developed in this book are Register Transfer Level (RTL) compliant and can be readily used or amended to suit new projects.

Steel Design - William T. Segui 2012-08-01

STEEL DESIGN covers the fundamentals of structural steel design with an emphasis on the design of members and their connections, rather

than the integrated design of buildings. The book is designed so that instructors can easily teach LRFD, ASD, or both, time-permitting. The application of fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering students, some of the later chapters can be used in graduate courses and practicing engineers will find this text to be an essential reference tool for reviewing current practices. Important Notice: Media content

referenced within the product description or the product text may not be available in the ebook version.

Understanding Unix/Linux Programming - Bruce Molay 2003

An accessible, yet comprehensive text that clearly explains Unix programming and structuring by addressing the fundamentals of Unix and providing alternative solutions to problems in concrete terms.

Digital Logic Design - Brian Holdsworth
2002-11-01

New, updated and expanded topics in the fourth

edition include: EBCDIC, Grey code, practical applications of flip-flops, linear and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages. *A highly accessible, comprehensive and fully up to date digital systems text *A well known and respected text now revamped for current courses *Part of the Newnes suite of texts for HND/1st year modules

Digital Design - M. Morris R. Mano 2017-02-27

For introductory courses on digital design in an

Electrical Engineering, Computer Engineering, or Computer Science department. A clear and accessible approach to the basic tools, concepts, and applications of digital design A modern update to a classic, authoritative text, Digital Design, 5th Edition teaches the fundamental concepts of digital design in a clear, accessible manner. The text presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications. Like the previous editions, this edition of Digital Design supports a multimodal approach to learning, with a focus on digital design, regardless of language.

Recognizing that three public-domain languages-- Verilog, VHDL, and SystemVerilog--all play a role in design flows for today's digital devices, the 5th Edition offers parallel tracks of presentation of multiple languages, but allows concentration on a single, chosen language.

Digital Electronics - Anil K. Maini 2007-09-27

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment.

Devices used in applications such as these are

constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter,

Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer

engineering, and a valuable reference book for professionals and researchers.

Computer Organization and Design RISC-V Edition - David A. Patterson 2017-05-12

The new RISC-V Edition of Computer Organization and Design features the RISC-V open source instruction set architecture, the first open source architecture designed to be used in modern computing environments such as cloud computing, mobile devices, and other embedded systems. With the post-PC era now upon us, Computer Organization and Design moves forward to explore this generational change with

examples, exercises, and material highlighting the emergence of mobile computing and the Cloud.

Updated content featuring tablet computers, Cloud infrastructure, and the x86 (cloud computing) and ARM (mobile computing devices) architectures is included. An online companion Web site provides advanced content for further

study, appendices, glossary, references, and recommended reading. Features RISC-V, the first such architecture designed to be used in modern computing environments, such as cloud computing, mobile devices, and other embedded systems Includes relevant examples, exercises, and material highlighting the emergence of mobile computing and the cloud