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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.

Troubleshooting Analog Circuits - Robert A. Pease 2013-10-22

Troubleshooting Analog Circuits is a guidebook for solving product or process related problems in analog circuits. The book also provides advice in selecting equipment, preventing problems, and general tips. The coverage of the book includes the philosophy of troubleshooting; the modes of failure of various components; and preventive measures. The text also deals with the active components of analog circuits, including diodes and rectifiers, optically coupled devices, solar cells, and batteries. The book will be of great use to both students and practitioners of electronics engineering. Other professionals dealing with electronics will also benefit from the text, such as electric technicians.

Foundations of Digital Logic Design - Gideon Langholz 1998-08-11

This text is intended for a first course in digital logic design, at the sophomore or junior level, for electrical engineering, computer engineering and computer science programs, as well as for a number of other disciplines such as physics and mathematics. The book can also be used for self-study or for review by practicing engineers and computer scientists not intimately familiar with the subject. After completing this text, the student should be prepared for a second (advanced) course in digital design, switching and automata theory, microprocessors or

computer organization. Request Inspection Copy

LabVIEW Power Programming - Gary W. Johnson 1998-01-01

This is an advanced LabVIEW programming book, discussing sophisticated techniques. Included is a CD of virtual tools written in LabVIEW, as well as programming tools.

Embedded Systems: World Class Designs - Jack Ganssle 2008

Famed author Jack Ganssle has selected the very best embedded systems design material from the Newnes portfolio. The result is a book covering the gamut of embedded design, from hardware to software to integrated embedded systems, with a strong pragmatic emphasis.

LabVIEW Graphical Programming, Fifth Edition - Richard Jennings 2019-11-15

LabVIEW programming techniques, tips, and practices Learn to build effective LabVIEW programs using the detailed information contained in this thoroughly revised resource. This edition updates all content to align with the latest version and adds new chapters that clearly explain object-oriented programming methods, and programming in teams using the cloud. LabVIEW Graphical Programming, Fifth Edition begins with basics for beginners and quickly progresses to intermediate and advanced programming techniques. Written by a pair of LabVIEW experts, this hands-on guide shows how to work with data types, start building your own applications, handle I/O, and use the DAQmix library. You will also find out how to build applications that communicate with enterprise message brokers and with Amazon Web Services' Internet of Things (IoT) message broker. Coverage includes: The origin and evolution of LabVIEW LabVIEW programming fundamentals Data acquisition Object-oriented programming in LabVIEW Frameworks, including the Delacor Queued Message Handler (DQMH®) and Actor Framework Unit testing Enterprise and IoT messaging Programming in teams using the cloud

The Making of America's Soviet Policy Joseph S. Nye 1984

Essays analyze the process of the development and management of the American government's policies for dealing with the Soviet Union

Programming 16-Bit PIC Microcontrollers in C - Lucio Di Jasio 2011-12-14

This guide by Microchip insider Lucio Di Jasio teaches readers everything they need to know about the architecture of these new chips: how to program them, how to test them, and how to debug them.

EDN - 2009

Digital Audio Broadcasting in Europe Wolfgang Hoeg 2004-01-09

Now the standardisation work of DAB (Digital Audio Broadcasting) system is finished many broadcast organisations, network providers and receiver manufacturers in European countries and outside of Europe (for example Canada and the Far East) will be installing DAB broadcast services as pilot projects or public services. In addition some value added services (data and video services) are under development or have already started as pilot projects. The new digital broadcast system DAB distinguishes itself from existing conventional broadcast systems, and the various new international standards and related documents (from ITU-R, ISO/IEC, ETSI, EBU, EUREKA147, and others) are not readily available and are difficult to read for users. Therefore it is essential that a well structured technical handbook should be available. The Second Edition of Digital Audio Broadcasting has been fully updated with new sections and chapters added to reflect all the latest developments and advances. Digital Audio Broadcasting: Provides a fully updated comprehensive overview of DAB Covers international standards, applications and other technical issues Combines the expertise of leading researchers in the field of DAB Now covers such new areas as: IP-Tunneling via DAB; Electronic Programme Guide for DAB; and Metadata A comprehensive overview of DAB specifically written for planning and system engineers, developers for professional and domestic equipment manufacturers, service providers, as well as postgraduate students and lecturers in communication technology.

Intuitive Analog Circuit Design Marc Thompson 2013-11-12

Intuitive Analog Circuit Design outlines ways of thinking about analog circuits and systems that let you develop a feel for what a good, working analog circuit design should be. This book reflects author Marc Thompson's 30 years of experience designing analog and power

electronics circuits and teaching graduate-level analog circuit design, and is the ideal reference for anyone who needs a straightforward introduction to the subject. In this book, Dr. Thompson describes intuitive and "back-of-the-envelope" techniques for designing and analyzing analog circuits, including transistor amplifiers (CMOS, JFET, and bipolar), transistor switching, noise in analog circuits, thermal circuit design, magnetic circuit design, and control systems. The application of some simple rules of thumb and design techniques is the first step in developing an intuitive understanding of the behavior of complex electrical systems. Introducing analog circuit design with a minimum of mathematics, this book uses numerous real-world examples to help you make the transition to analog design. The second edition is an ideal introductory text for anyone new to the area of analog circuit design. Design examples are used throughout the text, along with end-of-chapter examples. Covers real-world parasitic elements in circuit design and their effects

Power Sources and Supplies: World Class Design Marty Brown
2011-04-08

Newnes has worked with Marty Brown, a leader in the field of power design to select the very best design-specific material from the Newnes portfolio. Marty selected material for its timelessness, its relevance to current power supply design needs, and its real-world approach to design issues. Special attention is given to switching power supplies and their design issues, including component selection, minimization of EMI, toroid selection, and breadboarding of designs. Emphasis is also placed on design strategies for power supplies, including case histories and design examples. This is a book that belongs on the workbench of every power supply designer! *Marty Brown, author and power supply design consultant, has personally selected all content for its relevance and usefulness *Covers best design practices for switching power supplies and power converters *Emphasis is on pragmatic solutions to commonly encountered design problems and tasks

The Origins of Feedback Control - Otto Mayr 1970

[The Art of Hardware Architecture](#) - Mohit Arora 2011-10-09

This book highlights the complex issues, tasks and skills that must be mastered by an IP designer, in order to design an optimized and robust digital circuit to solve a problem. The techniques and methodologies described can serve as a bridge between specifications that are known to the designer and RTL code that is final outcome, reducing significantly the time it takes to convert initial ideas and concepts into right-first-time silicon. Coverage focuses on real problems rather than theoretical concepts, with an emphasis on design techniques across various aspects of chip-design.

Circuits, Signals, and Systems William McC. Siebert 1986

These twenty lectures have been developed and refined by Professor Siebert during the more than two decades he has been teaching introductory Signals and Systems courses at MIT. The lectures are designed to pursue a variety of goals in parallel: to familiarize students with the properties of a fundamental set of analytical tools; to show how these tools can be applied to help understand many important concepts and devices in modern communication and control engineering practice; to explore some of the mathematical issues behind the powers and limitations of these tools; and to begin the development of the vocabulary and grammar, common images and metaphors, of a general language of signal and system theory. Although broadly organized as a series of lectures, many more topics and examples (as well as a large set of unusual problems and laboratory exercises) are included in the book than would be presented orally. Extensive use is made throughout of knowledge acquired in early courses in elementary electrical and electronic circuits and differential equations. Contents: Review of the "classical" formulation and solution of dynamic equations for simple electrical circuits; The unilateral Laplace transform and its applications; System functions; Poles and zeros; Interconnected systems and feedback; The dynamics of feedback systems; Discrete-time signals and linear difference equations; The unilateral Z-transform and its applications; The unit-sample response and discrete-time convolution; Convolutional representations of continuous-time systems; Impulses and the

superposition integral; Frequency-domain methods for general LTI systems; Fourier series; Fourier transforms and Fourier's theorem; Sampling in time and frequency; Filters, real and ideal; Duration, rise-time and bandwidth relationships: The uncertainty principle; Bandpass operations and analog communication systems; Fourier transforms in discrete-time systems; Random Signals; Modern communication systems. William Siebert is Ford Professor of Engineering at MIT. Circuits, Signals, and Systems is included in The MIT Press Series in Electrical Engineering and Computer Science, copublished with McGraw-Hill. *Application Development Systems* Toshiyasu Kunii 1986

Applied Optimal Control & Estimation - Frank L. Lewis 1992

This book covers optimal design for multi-input/multi-output (MIMO) systems, providing not only the theoretical background, but also practical implementation techniques for control and estimation algorithms. Real-time implementation methods for a wide range of industries and control problems are detailed, including control of computer disk drives, chemical process control, and aircraft control. The book puts modern control design tools - based on solving matrix equation - well within the reach of the individual design engineer. You'll see how to design control systems using software programs, simulate these controllers on digital controllers, and then implement digital controllers on actual processors using digital signal processors (DSPs). Appropriate *The Voltage Regulator Handbook* Dale E. Pippenger 1977

Analog Circuits - Robert Pease 2008-07-02

Newnes has worked with Robert Pease, a leader in the field of analog design to select the very best design-specific material that we have to offer. The Newnes portfolio has always been known for its practical no nonsense approach and our design content is in keeping with that tradition. This material has been chosen based on its timeliness and timelessness. Designers will find inspiration between these covers highlighting basic design concepts that can be adapted to today's hottest technology as well as design material specific to what is happening in the field today. As an added bonus the editor of this reference tells you why this is important material to have on hand at all times. A library must for any design engineers in these fields. *Hand-picked content selected by analog design legend Robert Pease *Proven best design practices for op amps, feedback loops, and all types of filters *Case histories and design examples get you off and running on your current project

16-bit Microprocessors - Walter A. Triebel 1985

LabVIEW Graphical Programming - Gary Johnson 2006-07-17

LabVIEW is an award-winning programming language that allows engineers to create "virtual" instruments on their desktop. This new edition details the powerful features of LabVIEW 8.0. Written in a highly accessible and readable style, LabVIEW Graphical Programming illustrates basic LabVIEW programming techniques, building up to advanced programming concepts. New to this edition is study material for the CLAD and CLD exams.

Master and Command C for PIC® MCU - Fred Eady 2010-06-01