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FUNDAMENTALS OF DIGITAL CIRCUITS
Pulse and Digital Circuits *Digital Electronic Circuits - The Comprehensive View* Digital Circuits and Logic Design **Digital Electronics: A Primer - Introductory Logic Circuit Design** Foundations of Analog and Digital Electronic Circuits **Analog and Digital Electronics for Engineers** **Computer Architecture Practical Design of Digital Circuits** **Digital Circuits** Foundations of Analog and Digital Electronic Circuits **Digital Circuits** *Digital Circuits Digital Logic Circuits using VHDL* **Digital Electronics 2** *Digital Circuits and Systems* **Digital Circuit Design for Computer Science Students** Digital Circuits and Microprocessors **Digital Circuits and Design** **Digital Circuits & Design** *Digital Electronics 1* **VLSI Design Techniques for Analog and Digital Circuits** **PULSE AND DIGITAL CIRCUITS** **Digital Electronics 1** **Introduction to Digital Circuits** **Digital Electronic Circuits** *Digital Electronics* **Design Automation for Differential MOS Current-Mode Logic Circuits** **Pulse and Digital Circuits** *Complex Digital Circuits Analog and Digital Electronic Circuits* **Digital Circuit Analysis and Design with Simulink Modeling and Introduction to CPLDs and FPGAs** **An Introduction to Logic Circuit Testing** Digital Circuits with Microprocessor Applications **Digital Circuits and Design** *Analog and Digital Circuits for Electronic Control System Applications* *Digital Circuit Testing* *Digital Circuits* **Digital Circuit Design** **Introduction to Analog and Digital Circuits**

This text includes the following chapters and appendices: Common Number Systems and Conversions Operations in Binary, Octal, and Hexadecimal Systems Sign Magnitude and Floating Point Arithmetic Binary Codes Fundamentals of Boolean Algebra Minterms and Maxterms Combinational Logic Circuits Sequential Logic Circuits Memory Devices Advanced Arithmetic and Logic Operations Introduction to Field Programmable Devices Introduction to the ABEL Hardware Description Language Introduction to VHDL Introduction to Verilog Introduction to Boundary-Scan Architecture. Each chapter contains numerous practical applications. This is a design-oriented text. The second edition of this well-received text continues to provide a coherent and comprehensive coverage of Pulse and Digital Circuits, suitable as a textbook for use by undergraduate students pursuing courses in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Telecommunication Engineering. It presents clear explanations of the operation and analysis of semiconductor pulse circuits. Practical pulse circuit design methods are investigated in detail. The book provides numerous fully worked-out, laboratory-tested examples to give students a solid grounding in the related design concepts. It includes a number of classroom-tested problems to

encourage students to apply theory in a logical fashion. Review questions, fill in the blanks, and multiple choice questions offer the students the opportunity to test their understanding of the text material. This text will be also appropriate for self-study by AMIE and IETE students. NEW TO THIS EDITION : • Includes two new chapters—Logic Gates and Logic Families—to meet the curriculum requirements. • Provides short questions with answers at the end of each chapter. • Presents several new illustrations, examples and exercises This textbook is designed for a second course on digital systems, focused on the design of digital circuits. It was originally designed to accompany a MOOC (Massive Open Online Course) created at the Autonomous University of Barcelona (UAB), currently available on the Coursera platform. Readers will learn to develop complex digital circuits, starting from a functional specification, will know the design alternatives that a development engineer can choose to reach the specified circuit performance, and will understand which design tools are available to develop a new circuit. This book discusses the implementation of digital circuits by using MCML gates. Although digital circuit implementation is possible with other elements, such as CMOS gates, MCML implementations can provide superior performance in certain applications. This book provides a complete automation methodology for the implementation of digital circuits in MCML and provides an extensive explanation on the technical details of design of MCML. A systematic methodology is presented to build efficient MCML standard-cell libraries, and a complete top-down design flow is shown to implement complex systems using such building blocks. 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. An essential companion to John C Morris's 'Analogue Electronics', this clear and accessible text is designed for electronics students, teachers and enthusiasts who already have a basic understanding of electronics, and who wish to develop their knowledge of digital techniques and applications. Employing a discovery-based

approach, the author covers fundamental theory before going on to develop an appreciation of logic networks, integrated circuit applications and analogue-digital conversion. A section on digital fault finding and useful ic data sheets completes the book. Practical Design of Digital Circuits: Basic Logic to Microprocessors demonstrates the practical aspects of digital circuit design. The intention is to give the reader sufficient confidence to embark upon his own design projects utilizing digital integrated circuits as soon as possible. The book is organized into three parts. Part 1 teaches the basic principles of practical design, and introduces the designer to his ""tools"" — or rather, the range of devices that can be called upon. Part 2 shows the designer how to put these together into viable designs. It includes two detailed descriptions of actual design exercises. The first of these is a fairly simple exercise in CMOS design; the second is a much more complex design for an electronic game, using TTL devices. Part 3 focuses on microprocessors. It illustrates how a particular design problem changes emphasis when a microprocessor is introduced. This book is aimed at a fairly broad market: it is intended to aid the linear design engineer to cross the barrier into digital electronics; it should provide interesting supporting reading for students studying digital electronics from the more academic viewpoint; and it should enable the enthusiast to design much more ambitious and sophisticated projects than he could otherwise attempt if restricted to linear devices. A General Guide on Logic Design. The Book Expands upon the Applications of Logic Design in Relation to Microprocessors An introductory text to computer architecture, this comprehensive volume covers the concepts from logic gates to advanced computer architecture. It comes with a full spectrum of exercises and web-downloadable support materials, including assembler and simulator, which can be used in the context of different courses. The authors also make available a hardware description, which can be used in labs and assignments, for hands-on experimentation with an actual, simple processor. This unique compendium is a useful reference for undergraduates, graduates and professionals majoring in computer engineering, circuits and systems, software engineering, biomedical engineering and aerospace engineering. This practical introduction explains exactly how digital circuits are designed, from the basic circuit to the advanced system. It covers combinational logic circuits, which collect logic signals, to sequential logic circuits, which embody time and memory to progress through sequences of states. The primer also highlights digital arithmetic and the integrated circuits that implement the logic functions. Based on the author's extensive experience in teaching digital electronics to undergraduates, the book translates theory directly into practice and presents the essential information in a compact,

digestible style. Worked problems and examples are accompanied by abbreviated solutions, with demonstrations to ensure that the design material and the circuits' operation are fully understood. This is essential reading for any electronic or electrical engineering student new to digital electronics and requiring a succinct yet comprehensive introduction. Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology. The modern world is overrun with electronic equipment, handling huge quantities of data. At the heart of this scenario lies the digital circuitry, which provides the powerful intelligence needed. Thus, there is an increasing need for design engineers in this expanding area. This text starts from basic ideas of logical gates, and progresses through to advanced concepts of digital systems. Each chapter comes with a wealth of illustrative examples and assignment questions for lecture-room use. Contents List of Digital Circuit Design Chapter 1 Introduction to Digital Systems and Logic Gates 1.1 The transition from analogue to digital signals 1.2 Digital logic levels 1.3 The concept of gates 1.4 The AND gate 1.5 The OR gate 1.6 The XOR gate (Exclusive-OR) 1.7 The NOT gate 1.8 Bubbled gates 1.9 The NOR gate 1.10 The NAND gate 1.11 The XNOR gate Chapter 2 Boolean Algebra 2.1 Introducing Boolean algebra 2.2 The AND operation in Boolean algebra 2.3 The OR operation in Boolean algebra 2.4 The XOR operation in Boolean algebra 2.5 The NOT function in Boolean algebra 2.6 Examples of Boolean calculations 2.7 Theorems of Boolean algebra Chapter 3 Combinational Logic 3.1 Illustrations of combinational logic 3.2 Developing Boolean expressions for combinational circuits 3.3 The importance of minimisation 3.4 Karnaugh maps (K-maps) 3.5 Summary of K-map looping rules 3.6 "Can't Happen" states 3.7 Static hazards Chapter 4 Number Systems 4.1 Types of numerical system 4.2 The Decimal number system 4.3 The Binary system 4.4 Binary-to-Decimal conversion 4.5 Decimal-to-binary conversion 4.6 Binary operations 4.7 The Hexadecimal number system Chapter 5 Adders, Subtractors and Multipliers 5.1 Arithmetic in digital circuits 5.2

The half adder 5.3 The full adder 5.4 The parallel binary adder (Ripple carry parallel adder) 5.5 The half subtractor 5.6 The full subtractor 5.7 Multipliers Chapter 6 Multiplexers and Decoders 6.1 Comparators 6.2 Multiplexers 6.3 Demultiplexers 6.4 Encoders 6.5 Decoders Chapter 7 Latches and Flip-Flops 7.1 Introducing time into logic circuits 7.2 The bistable multivibrator (Flip-flop) 7.3 The SR latch 7.4 The SR flip-flop 7.5 The T-type flip-flop 7.6 The D-type flip-flop (Data latch) 7.7 The JK flip-flop 7.8 The Master-Slave JK flip-flop 7.9 Preset and Clear inputs 7.10 Integrated circuit flip-flops Chapter 8 Shift Registers 8.1 Basic shift register functions 8.2 Serial-in serial-out shift registers 8.3 Serial-in parallel-out shift registers 8.4 Parallel-in serial-out shift registers 8.5 Parallel-in parallel-out shift registers 8.6 Bidirectional shift registers 8.7 Shift register counters Chapter 9 Multivibrators and Timers 9.1 What are multivibrators? 9.2 Astable multivibrators 9.3 The monostable multivibrator 9.4 The 555 timer 9.5 Applications of the 555 timer Chapter 10 Counters 10.1 Introducing counters 10.2 Asynchronous counter operation 10.3 Synchronous counter operation 10.4 Up/down synchronous counters 10.5 Cascaded counters 10.6 Counter decoding 10.7 Counter applications conversion Chapter 11 Memories and Data Storage 11.1 Memory types 11.2 Classification by fabrication technology 11.3 Memory terminology 11.4 ROM (Read-Only Memory) 11.5 RAM (Random-Access Memory) Chapter 12 Design of Digital Integrated Circuits (ICs) 12.1 Logic families 12.2 Electrical characteristics of digital ICs margin 12.3 RTL and DTL families 12.4 The TTL logic family 12.5 The ECL logic family 12.6 The I²L logic family 12.7 The MOSFET logic family 12.8 CMOS circuits gates This book deals with key aspects of design of digital electronic circuits for different families of elementary electronic devices. Implementation of both simple and complex logic circuits are considered in detail, with special attention paid to the design of digital systems based on complementary metal-oxide-semiconductor (CMOS) and Pass-Transistor Logic (PTL) technologies acceptable for use in planar microelectronics technology. It is written for students in electronics and microelectronics, with exercises and solutions provided. As electronic devices become increasingly prevalent in everyday life, digital circuits are becoming even more complex and smaller in size. This book presents the basic principles of digital electronics in an accessible manner, allowing the reader to grasp the principles of combinational and sequential logic and the underlying techniques for the analysis and design of digital circuits. Providing a hands-on approach, this work introduces techniques and methods for establishing logic equations and designing and analyzing digital circuits. Each chapter is supplemented with practical examples and well-designed exercises with worked solutions. This second of three volumes focuses on sequential and arithmetic logic circuits. It covers various aspects related to the following topics: latch and flip-flop; binary counters; shift registers; arithmetic and logic circuits; digital integrated circuit technology; semiconductor memory; programmable logic circuits. Along with the two accompanying volumes, this book is an

indispensable tool for students at a bachelors or masters level seeking to improve their understanding of digital electronics, and is detailed enough to serve as a reference for electronic, automation and computer engineers. The book is written for an undergraduate course on digital electronics. The book provides basic concepts, procedures and several relevant examples to help the readers to understand the analysis and design of various digital circuits. It also introduces hardware description language, VHDL. The book teaches you the logic gates, logic families, Boolean algebra, simplification of logic functions, analysis and design of combinational circuits using SSI and MSI circuits and analysis and design of the sequential circuits. This book provides in-depth information about multiplexers, demultiplexers, decoders, encoders, circuits for arithmetic operations, various types of flip-flops, counters and registers. It also covers asynchronous sequential circuits, memories and programmable logic devices. 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. Point set theory in digital logic; Gating by definition; Boolean algebra for design and troubleshooting; Minimization aids for least minterm forms; Minimization aids for least maxterm forms; Troubleshooting digital systems with the aid of the karnaugh map; Nor logic: synthesis and analysis; Nand logic: synthesis and analysis; Digital logic: characteristics of families, packages, and signals; Digital signals and coupling; Sequential circuits: the marvelous multivibrators; Sequential systems operations; The arithmetic logic unit; Interfacing to the analog world; So where should we go from here? This book presents three aspects of digital circuits: digital principles, digital electronics, and digital design. The modern design methods of using electronic design automation (EDA) are also introduced, including the hardware description language (HDL), designs with programmable logic devices and large scale integrated circuit (LSI). The applications of digital devices and integrated circuits are discussed in detail as well. Pulse and Digital Circuits is designed to cater to the needs of undergraduate students of electronics and communication engineering. Written in a lucid, student-friendly style, it covers key topics in the area of pulse and digital circuits. This is an introductory text that discusses the basic concepts involved in the design, operation and analysis of waveshaping

circuits. The book includes a preliminary chapter that reviews the concepts needed to understand the subject matter. Each concept in the book is accompanied by self-explanatory circuit diagrams. Interspersed with numerous solved problems, the text presents detailed analysis of key concepts. Multivibrators and sweep generators are covered in great detail in the book. The text of the first edition has been extensively revised and supplemented to bring it up to date. This student friendly, practical and example-driven book gives students a solid foundation in the basics of digital circuits and design. The fundamental concepts of digital electronics such as analog/digital signals and waveforms, digital information and digital integrated circuits are discussed in detail using relevant pedagogy. This textbook is intended to introduce the student of electronics to the fundamentals of digital circuits, both combinational and sequential, in a reasonable and systematic manner. It proceeds from basic logic concepts to circuits and designs. The author is the leading programming language designer of our time and in this book, based on a course for 2nd-year students at, he closes the gap between hardware and software design. He encourages students to put the theory to work in exercises that include lab work culminating in the design of a simple yet complete computer. In short, a modern introduction to designing circuits using state-of-the-art technology and a concise, easy to master hardware description language (Lola). An Introduction to Logic Circuit Testing provides a detailed coverage of techniques for test generation and testable design of digital electronic circuits/systems. The material covered in the book should be sufficient for a course, or part of a course, in digital circuit testing for senior-level undergraduate and first-year graduate students in Electrical Engineering and Computer Science. The book will also be a valuable resource for engineers working in the industry. This book has four chapters. Chapter 1 deals with various types of faults that may occur in very large scale integration (VLSI)-based digital circuits. Chapter 2 introduces the major concepts of all test generation techniques such as redundancy, fault coverage, sensitization, and backtracking. Chapter 3 introduces the key concepts of testability, followed by some ad hoc design-for-testability rules that can be used to enhance testability of combinational circuits. Chapter 4 deals with test generation and response evaluation techniques used in BIST (built-in self-test) schemes for VLSI chips. Table of Contents: Introduction / Fault Detection in Logic Circuits / Design for Testability / Built-in Self-Test / References. Unlike books currently on the market, this volume attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. Using the concept of abstraction, the authors attempt to form a bridge between the world of physics and the world of large computer systems. The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and

Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students. Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter. Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine. Recent technological advances have created a testing crisis in the electronics industry--smaller, more highly integrated electronic circuits and new packaging techniques make it increasingly difficult to physically access test nodes. New testing methods are needed for the next generation of electronic equipment and a great deal of emphasis is being placed on the development of these methods. Some of the techniques now becoming popular include design for testability (DFT), built-in self-test (BIST), and automatic test vector generation (ATVG). This book will provide a practical introduction to these and other testing techniques. For each technique introduced, the author provides real-world examples so the reader can achieve a working knowledge of how to choose and apply these increasingly important testing methods. Partial Contents: Transistor Theory; Mosfets; Logic Element Input and Output; Logic Circuit Design; Karnaugh Maps; ROMs, RAMs, Magnetic Memories, PROMs, EPROMs, and EEPROMs; Digital Signal Voltage Levels, and more. This is intended as an introductory text for courses in computer design, circuit theory, troubleshooting and servicing. All of the basic theory that is needed is developed in the text. 640 illustrations, including diagrams and charts. Index. Digital Circuits and Design is a textbook dealing with the basics of digital technology including the design aspects of circuits. The book fulfils the requirements of the students of electrical, electronics, and computer science engineering for the first course on the subject. The book is divided into 16 chapters. Each chapter begins with an introduction and ends with a set of review questions and problems. All the topics have been illustrated with clear diagrams. A variety of examples are given to enable students to design digital circuits efficiently. The fifth edition of the book provides discussion of Verilog, a popular hardware description language, to demonstrate solutions to problems in digital design. The current edition also provides additional example problems. A guide to the world of computers, data communications and control circuits, this book

would be of interest to anyone attempting to understand the digital integrated circuit devices inside their microcomputer. The book contains a number of worked design examples which can be implemented directly in most cases on a breadboard system together with unworked exercises to test the readers design skills. The book would be suitable for undergraduates, National or Higher BTEC students and electrical and electronic engineers and technicians. In system design (in particular, industrial control systems), there is, and has been, a continuous need to sense real-world analog quantities (such as temperature, pressure, or humidity), make computations with them, and then perform some action with the result. In today's systems, the computations need to be made at increased speeds and the accuracy with which the computations must be made, even as the speed increases, must be the same or higher as time progresses. The advent of the microcontroller, and its extensive use in all types of control applications, many of them battery powered, has led to new control system design approaches. Rather than computing using analog quantities, the analog quantities are sensed, conditioned, and converted to digital, processed digitally, and then converted back to an analog output, which is then used to perform the necessary output action. This practical textbook covers the latest techniques in microcontroller-based control system design. It is aimed at engineering students and engineers new to working with microcontrollers. It covers the fundamentals of: 1. Sensors and the electrical signals they output. 2. The design and application of the electronic circuits that receive and condition (change or modify) the sensor analog signals. 3. The design and application of the circuits that convert analog signals to digital and digital signals to analog. 4. The makeup and operation of a microcontroller and how to program it. 5. The application of electronic circuits for system power control. The book, written by an experienced microcontroller engineer and textbook author, is suitable for community college students, technical school students, technicians and engineers just being introduced to microcontroller system design. It is an introductory book, focusing on real-world implementation of a basic control system, with real-world circuit examples. Readers will find clearly written discussion coupled with lots of illustrations. They will also find worked-out examples that illustrate principles within each chapter and quizzes to aid understanding. Besides these specifics, a hands-on project, suitable for an electronics microcontroller laboratory course, using the popular and low-cost TI MSP430 microcontroller, is discussed in detail. The accompanying CD-ROM contains microcontrollers application notes, code for the software examples, and problem solutions. * Seasoned Texas Instruments designer provides a ground-up perspective on embedded control systems * Pedagogical style provides a self-learning approach with examples, quizzes and review features * CD-ROM contains source code and more! Covers the fundamental elements of electrical circuits from an engineering perspective. The book is divided in two main sections: digital circuits and analogue circuits. To strengthen the conceptual understanding of the topics, each chapter

includes an extensive and varied set of exercises and examples. This book introduces the foundations and fundamentals of electronic circuits. It broadly covers the subjects of circuit analysis, as well as analog and digital electronics. It features discussion of essential theorems required for simplifying complex circuits and illustrates their applications under different conditions. Also, in view of the emerging potential of Laplace transform method for solving electrical networks, a full chapter is devoted to the topic in the book. In addition, it covers the physics and technical aspects of semiconductor diodes and transistors, as well as discrete-time digital signals, logic gates, and combinational logic circuits. Each chapter is presented as complete as possible, without the reader having to refer to any other book or supplementary material. Featuring short self-assessment questions distributed throughout, along with a large number of solved examples, supporting illustrations, and chapter-end problems and solutions, this book is ideal for any physics undergraduate lecture course on electronic circuits. Its use of clear language and many real-world examples make it an especially accessible book for students unfamiliar or unsure about the subject matter.

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