
Fundamentals Of Digital Circuits By Anand Kumar 2nd Edition

Microcontrollers Fundamentals for Engineers and Scientists
Digital Electronics
Foundation of Digital Electronics and Logic Design
Fundamentals of Digital Electronics
Principles of Digital Electronics
Digital Electronics
Optical Biosensors
Fundamentals, Analysis, and Applications
Fundamentals of Digital Electronics
Logic and Design
A Text Laboratory Manual
Fundamentals of Electronics: Book 1
Principles and Applications Se W/Student Tutorial CD-ROM 2003
Digital Techniques
Fundamentals of Digital Circuits and Systems
FUNDAMENTALS OF DIGITAL CIRCUITS
Digital Fundamentals, Global Edition
Fundamentals of Digital Electronics and Microprocessors
Fundamental of Digital Electronics And Microprocessors
Analog and Digital Electronic Circuits
Electronic Digital System Fundamentals
Active Filters and Amplifier Frequency Response
Amplifiers: Analysis and Design
PULSE AND DIGITAL CIRCUITS
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TANYA JERAMIAH

Microcontrollers Fundamentals for Engineers and Scientists CRC Press
This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering, electrical and electronics engineering, electronics and instrumentation engineering, telecommunication engineering, computer science and engineering, and information technology. It will also be useful to AMIE, IETE and diploma students. Written in a student-friendly style, this book, now in its Second Edition, provides an in-depth knowledge of switching theory and the design techniques of digital circuits. Striking a balance between theory and practice, it covers topics ranging from number systems, binary codes, logic gates and Boolean algebra to minimization using K-maps and tabular method, design of combinational logic circuits, synchronous and asynchronous sequential circuits, and algorithmic state machines. The book discusses threshold gates and programmable logic devices (PLDs). In addition, it elaborates on flip-flops and shift registers. Each chapter includes several fully worked-out examples so that the students get a thorough grounding in related design concepts. Short questions with answers, review questions, fill in the blanks, multiple choice questions and problems are provided at the end of each chapter. These help the students test their level of understanding of the subject and prepare for examinations confidently.
NEW TO THIS EDITION • VHDL programs

at the end of each chapter • Complete answers with figures • Several new problems with answers

Digital Electronics Elsevier

For mid-level courses in Digital Circuits (also called Digital Fundamentals or Digital Systems). Reflecting 20 years' combined experience in engineering industry and in the classroom, this bestseller provides thorough, up-to-date coverage of digital fundamentals from basic concepts to microprocessors. Floyd's acclaimed emphasis on applications using real devices and on troubleshooting gives students the problem-solving experience they'll need to compete in the professional arena. This practical text is known for its clear, accurate explanations of theory supported by superior exercises, examples, and visual aids. Its vivid full-color format is packed with the photographs, illustrations, tables, charts, and graphs today's students need to grasp concepts.

Foundation of Digital Electronics and Logic Design Morgan & Claypool Publishers

In the recent years there has been rapid advances in the field of Digital Electronics and Microprocessor. This book is intended to help students to keep pace with these latest developments. The Present book is revised version of earlier book 'Introduction to Digital Computers' by the same author. Now this book is written in a lucid and simple language, which gives clear explanation of basics of Digital Electronics, Computers and microprocessors.

PHI Learning Pvt. Ltd.

This book provides practicing scientists and engineers a tutorial on the fundamental concepts and use of microcontrollers. Today,

microcontrollers, or single integrated circuit (chip) computers, play critical roles in almost all instrumentation and control systems. Most existing books are rewritten for undergraduate and graduate students taking an electrical and/or computer engineering course. Furthermore, these texts have been written with a particular model of microcontroller as the target discussion. These textbooks also require a requisite knowledge of digital design fundamentals. This textbook presents the fundamental concepts common to all microcontrollers. Our goals are to present the over-arching theory of microcontroller operation and to provide a detailed discussion on constituent subsystems available in most microcontrollers. With such goals, we envision that the theory discussed in this book can be readily applied to a wide variety of microcontroller technologies, allowing practicing scientists and engineers to become acquainted with basic concepts prior to beginning a design involving a specific microcontroller. We have found that the fundamental principles of a given microcontroller are easily transferred to other controllers. Although this is a relatively small book, it is packed with useful information for quickly coming up to speed on microcontroller concepts.

Fundamentals of Digital Electronics
Springer Nature

Fundamentals of Digital Logic and Microcomputer Design, has long been hailed for its clear and simple presentation of the principles and basic tools required to design typical digital systems such as microcomputers. In this Fifth Edition, the author focuses on computer design at three levels: the device level, the logic level, and the system level. Basic topics are covered,

such as number systems and Boolean algebra, combinational and sequential logic design, as well as more advanced subjects such as assembly language programming and microprocessor-based system design. Numerous examples are provided throughout the text. Coverage includes: Digital circuits at the gate and flip-flop levels Analysis and design of combinational and sequential circuits Microcomputer organization, architecture, and programming concepts Design of computer instruction sets, CPU, memory, and I/O System design features associated with popular microprocessors from Intel and Motorola Future plans in microprocessor development An instructor's manual, available upon request Additionally, the accompanying CD-ROM, contains step-by-step procedures for installing and using Altera Quartus II software, MASM 6.11 (8086), and 68asm (68000), provides valuable simulation results via screen shots. Fundamentals of Digital Logic and Microcomputer Design is an essential reference that will provide you with the fundamental tools you need to design typical digital systems.

Principles of Digital Electronics John Wiley & Sons

This book, Active Filters and Amplifier Frequency Response, is the third of four books of a larger work, Fundamentals of Electronics. It is comprised of three chapters that describe the frequency dependent response of electronic circuits. This book begins with an extensive tutorial on creating and using Bode Diagrams that leads to the modeling and design of active filters using operational amplifiers. The second chapter starts by focusing on bypass and coupling capacitors and, after introducing high-frequency modeling of

bipolar and field-effect transistors, extensively develops the high- and low-frequency response of a variety of common electronic amplifiers. The final chapter expands the frequency-dependent discussion to feedback amplifiers, the possibility of instabilities, and remedies for good amplifier design. Fundamentals of Electronics has been designed primarily for use in an upper division course in electronics for electrical engineering students and for working professionals. Typically such a course spans a full academic year consisting of two semesters or three quarters. As such, Active Filters and Amplifier Frequency Response, and the first two books in the series, Electronic Devices and Circuit Applications, and Amplifiers: Analysis and Design, form an appropriate body of material for such a course.

Digital Electronics MD Pub Pvt Limited
FUNDAMENTALS OF DIGITAL
CIRCUITSPHI Learning Pvt. Ltd.

Optical Biosensors Prentice Hall
This book was written specifically for the newcomer to the field of digital electronics. If you've always wanted to know how the digital world works, then keep reading. The only requirements are an interest in digital electronics and a desire to learn. In Learn Digital Circuits book: It can teach you to know how to analyze and implement the combinational circuits and sequential circuits, will provide the fundamentals of digital circuits and how to use them in different applications.

Fundamentals, Analysis, and Applications Tata McGraw-Hill
Education

This book focuses on conceptual frameworks that are helpful in understanding the basics of electronics – what the feedback system is, the

principle of an oscillator, the operational working of an amplifier, and other relevant topics. It also provides an overview of the technologies supporting electronic systems, like OP-AMP, transistor, filter, ICs, and diodes. It consists of seven chapters, written in an easy and understandable language, and featuring relevant block diagrams, circuit diagrams, valuable and interesting solved examples, and important test questions. Further, the book includes up-to-date illustrations, exercises, and numerous worked examples to illustrate the theory and to demonstrate their use in practical designs.

Fundamentals of Digital Electronics PHI
Learning Pvt. Ltd.

DIGITAL ELECTRONICS offers a comprehensive, computer-supported introduction to digital electronics, from basic electrical theory and digital logic to hands-on, high-tech applications.

Designed to support Project Lead the Way's (PLTW) innovative Digital Electronics (DE) curriculum, this dynamic text prepares students for college and career success in STEM (Science, Technology, Engineering, and Math). The text introduces core concepts such as electrical shop practices and electrical theory, enables students to gain confidence by exploring key principles and applying their knowledge, and helps develop sophisticated skills in circuit analysis, design, and troubleshooting. Many of the text's abundant examples and exercises support the use of Multisim, allowing students to visualize and analyze circuits including combinational and sequential circuits before constructing them. In addition, a variety of proven learning tools make mastering the material easier, including self-check problems in every chapter, Bring it Home questions to solidify core

concepts, and challenging Extra Mile problems to help students deepen their understanding and hone their skills. As an integrated part of your PLTW program or a stand-alone classroom resource, DIGITAL ELECTRONICS is an ideal choice to support your students' STEM success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Logic and Design Cengage Learning
Covers Concepts, Principles &
Techniques Used to Analyze Solid State
Pulse & Digital Circuits

A Text Laboratory Manual PHI Learning
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Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce learning and provide a basis for further practical work.

A companion website at <http://www.key2electronics.com> offers the reader a set of spreadsheet design tools that can be used to simplify circuit calculations, as well as circuit models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available.

Fundamentals of Electronics: Book 1
Cengage Learning

For courses in digital circuits, digital systems (including design and analysis), digital fundamentals, digital logic, and introduction to computers Digital Fundamentals, Eleventh Edition, continues its long and respected tradition of offering students a strong foundation in the core fundamentals of digital technology, providing basic concepts reinforced by plentiful illustrations, examples, exercises, and applications. The text's teaching and learning resources include an Instructor's Manual, PowerPoint lecture slides, and Test Bank, as well as study resources for students. Teaching and Learning Experience: * Provides a strong foundation in the core fundamentals of digital technology. * Covers basic concepts reinforced by plentiful illustrations, examples, exercises, and applications. * Offers a full-color design, effective chapter organization, and clear writing that help students grasp complex concepts.

Principles and Applications Se W/Student Tutorial CD-ROM 2003 FUNDAMENTALS OF DIGITAL CIRCUITS

This self-study text explains the basics of digital electronics using a combination of

fundamental theory, examples and practical applications. Digital devices form an integral part of numerous modern-day systems and include those used for operating electronic alarm systems, for performing arithmetic, timing and computing operations, and for logging, processing and data transfer. Well-illustrated, step-by-step procedures are provided for explaining the working of these and other digital devices. All the chapters in the text include a summary of the key points covered for the purpose of review. The recommended safety precautions, datasheets of selected digital devices, and implementation guidelines while working with digital circuits in the appendices, should be of interest to the electronics hobbyist.

Digital Techniques John Wiley & Sons
For courses in digital circuits, digital systems (including design and analysis), digital fundamentals, digital logic, and introduction to computers Digital Fundamentals, Eleventh Edition, continues its long and respected tradition of offering students a strong foundation in the core fundamentals of digital technology, providing basic concepts reinforced by plentiful illustrations, examples, exercises, and applications. The text's teaching and learning resources include an Instructor's Manual, PowerPoint lecture slides, and Test Bank, as well as study resources for students. Teaching and Learning Experience: Provides a strong foundation in the core fundamentals of digital technology. Covers basic concepts reinforced by plentiful illustrations, examples, exercises, and applications. Offers a full-color design, effective chapter organization, and clear writing that help students grasp complex concepts.

Fundamentals of Digital Circuits and Systems Routledge

This Practical book is easy-to-understand and coverage of the basics of digital design is provided, along with information on the necessary hardware to implement the design. This book covers everything from basic programming concepts to microprocessors and microcontrollers is featured, with updated coverage of CMOS sub-families and IC packages that reflect recent industry changes. This book presents a step-by-step, practical approach to an enhanced and easy understanding of digital circuitry fundamentals. The editor combines extensive teaching experience from his best-sellers with practical examples, in order to bring beginning learners up to speed in this emerging field. This book covers basic logic gates used in this emerging field. This book covers basic logic gates used to perform arithmetic operations, and proceeds up through sequential logic and memory circuits used to interface to modern PCs.

FUNDAMENTALS OF DIGITAL CIRCUITS Delmar Pub

This book teaches the basic principles of digital circuits. It is appropriate for an introductory course in digital electronics for the students of: • B.Sc. (Computer Science) • B.Sc. (Electronics) • B.Sc. (Information Technology) • B.Sc. (Physics) • Bachelor of Computer Applications (BCA) • Postgraduate Diploma in Computer Applications • Master of Computer Applications (MCA)
The book emphasizes the must know concepts that should be covered in an introductory course and provides an abundance of clearly explained examples, so essential for a thorough understanding of the principles involved in the analysis and design of digital

computers. The book takes students step-by-step through digital theory, focusing on: » Number representation systems and codes for representing information in digital systems » Use of logic gates in building digital circuits » Basic postulates and theorems of Boolean algebra » Karnaugh map method for simplifying Boolean functions » Arithmetic circuits such as adders and subtractors » Combinational circuit building blocks such as multiplexers, decoders and encoders » Sequential circuit building blocks such as flip-flops, counters and registers » Operation of memory elements such as RAM, DRAM, magnetic disk, magnetic bubble, optical disk, etc.

1. Number Systems and Codes
 2. Logic Gates and Circuits
 3. Boolean Algebra
 4. Combinational Logic Circuits
 5. Sequential Logic Circuits
 6. Counters and Shift Registers
 7. MEMORY ELEMENTS

Digital Fundamentals, Global Edition
 Springer Nature

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, demultiplexers, 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.

Fundamentals of Digital Electronics and Microprocessors
 Morgan & Claypool Publishers

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.

Fundamental of Digital Electronics And Microprocessors Pearson Higher Ed Digital Electronics is practically dominating other electronics branches ever since the development of digital computers. The speed is further accelerated with the use of digital electronics in satellite and mobile

communication. With mobile phones, digital electronics is being used by everyone. With this background, it was thought to write a simplified book in digital electronics. It has been written in a student friendly style. Starting with different number systems, digital gates, their uses, various laws for simplification of digital circuits are discussed with interactive approach, in initial chapters of the book. New techniques and approaches are used for solving certain problems. Concepts are illustrated with number of problems and diagrams. Counters, Registers, A/D, D/A Converters are explained in latter part of the book. We are confident that the book will be useful for understanding basics of digital electronics by all working in the field of science, engineering etc.

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