

Modern Digital Electronics

By Rp Jain

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Digital Circuits And Design, 3E
- Arivazhagan S Salivahanan
2009-11

The Use Of Digital Circuits Is Increasing In All Disciplines Of Engineering. Consequently Students Need To Have An In-Depth Knowledge On Them. Digital Circuits And Design Is A Textbook Dealing With The

Basics Of Digital Technology Including The Design Asp

Digital Computer

Electronics - Albert P. Malvino
1990-07-01

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.

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.

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.

Modern Digital Electronics - R Jain 2006-08-21

Part of the McGraw-Hill Core Concepts Series, *Modern Digital Electronics* is an ideal textbook for a course on digital electronics at the undergraduate level. The text introduces digital systems and techniques through a bottom-up approach that allows users to start out with the basics of integrated circuits/circuit design and delve into topics such as digital design, flip flops, A/D and D/A. The book then moves on to explore elements of complex digital circuits with material like FPGAs, PLDs, PLAs, and more.

Rich pedagogical features include review questions with answers, a glossary of key terms, a large number of solved examples, and numerous practice problems.

This is a concise, less expensive alternative to other digital logic designs. This series is edited by Dick Dorf. *All New Electronics Self-Teaching Guide* - Harry Kybett 2011-02-23

For almost 30 years, this book has been a classic text for electronics enthusiasts. Now completely updated for today's technology with easy explanations and presented in a more user-friendly format, this third edition helps you learn the essentials you need to work with electronic circuits. All you need is a general understanding of electronics concepts such as Ohm's law and current flow, and an acquaintance with first-year algebra. The question-and-answer format, illustrative experiments, and self-tests at the end of each chapter make it easy for you to learn at your own speed.

Digital Electronics - William H. Gothmann 1982-01-01

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.

CONTROL SYSTEMS - A. ANAND KUMAR 2014-03-05

This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering.

Appropriate for self-study, the book will also be useful for AMIE and IETE students.

Written in a student-friendly readable manner, the book, now in its Second Edition,

explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. NEW TO THIS EDITION • One new chapter on Digital control systems • Complete answers with figures • Root locus plots and Nyquist plots redrawn as per MATLAB output • MATLAB programs at the end of each chapter • Glossary at the end of chapters KEY FEATURES • Includes several fully worked-out examples to help students master the concepts involved. • Provides short questions with answers at the end of each

chapter to help students prepare for exams confidently. • Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. • Gives chapter-end review questions and problems to assist students in reinforcing their knowledge. Solution Manual is available for adopting faculty.

Electronic Measurements and Instrumentation - RS Sedha 2013

The book is meant for B.E./B.Tech. students of different universities of India and abroad. It contains all basic material required at undergraduate level. The author has included "Examination questions" from several Indian Universities as solved examples. The sections on "Descriptive Questions" and "Multiple Choice Questions" contains the theory type examination questions and objective questions respectively.

Digital Principles and Logic Design - Arijit Saha 2009-01-28

This text and reference provides students and practicing engineers with an introduction to the classical methods of designing electrical circuits, but incorporates modern logic design techniques used in the latest microprocessors, microcontrollers, microcomputers, and various LSI components. The book provides a review of the classical methods e.g., the basic concepts of Boolean algebra, combinational logic and sequential logic procedures, before engaging in the practical design approach and the use of computer-aided tools. The book is enriched with numerous examples (and their solutions), over 500 illustrations, and includes a CD-ROM with simulations, additional figures, and third party software to illustrate the concepts discussed in the book.

PULSE AND DIGITAL CIRCUITS - A. ANAND KUMAR 2008-02-12

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

ELECTRONICS - I. J. NAGRATH 2013-09-13

The second edition of this book has been updated and enlarged, especially the chapters on digital electronics. In the analog part, several additions have been made wherever necessary. Also, optical devices and circuits have been introduced. Analog electronics spans semiconductors, diodes, transistors, small and large-signal amplifiers, OPAMPs and their applications. Both BJT and JFET, and MOSFET are treated parallelly so as to highlight their similarities and dissimilarities for thorough understanding of their parameters and specifications. The digital electronics covers logic gates, combinational circuits, IC families, number

systems codes, adders/subtractors, flip-flops, registers and counters. Sequential circuits, memories and D/A and A/D convertor circuits are especially stressed. Fabrication technology of integrated devices and circuits have also been dealt with. Besides, many new examples and problems have been added section-wise. The text is written in simple yet rigorous manner with profusion of illustrative examples as an aid to clear understanding. The student can self-study several portions of the book with minimal guidance. A solution manual is available for the teachers.

A Textbook of Digital Electronics - S. S. Bhatti
2011-11

Digital electronics is an interdisciplinary subject of electronics, electrical, information technology, computer science engineering and sciences domain. Digital Electronics has been written as per the syllabus of Digital Electronics, Digital Circuits and Logic Design of various universities like PTU, GNDU,

PU, SLIET, DU, PEC, NITs and Thapar University. The book provides a comprehensive coverage of the fundamental aspects of digital electronics. It not only explores the theoretical and practical aspects of digital circuitry, but also gives a glimpse of experience and classroom interaction of the authors. Besides, the step-by-step methods to solve the digital system problems, it also includes the shortcut methods to digital approach for job interviews and competitive examinations. This book is invaluable for BE, B.Tech., B.Sc., M.Sc. (Computer Science/IT), M.Sc. (Physics), M.Sc. (Electronics), BCA, MCA, PGDCA and PGDIT students. 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 ELECTRONICS PRACTICE USING INTEGRATED CIRCUITS - JAIN R P 1988

Digital Logic Design (gtu) - Arivazhagan S 2010

Digital Systems: Principles and Design (For Anna University) - Raj Kamal 2011
 Digital Systems: Principles and Design (For Anna University) is designed as an ideal textbook for students of electrical engineering. The book's coverage also meets the requirements of the Digital Electronics paper of the Electronics and Communication Engineering course, and of the Digital Principles and System Design paper of the Computer Science

Engineering course. Spread across 18 chapters, the book covers digital fundamentals through worked-out examples and facilitates a firm understanding of the subject.
Digital Integrated Electronics - Herbert Taub 1977
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 1 Electronic Devices
 2 Operational Amplifiers and Comparators
 3 Logic Circuits
 4 Resistor-Transistor Logic and Integrated- Injunction Logic
 5 Diode-Transistor Logic
 6 Transistor-Transistor Logic
 7 Emitter- Coupled Logic
 8 MOS Gates
 9 Flip-Flops
 10 Registers and Counters
 11 Arithmetic Operations
 12 Semiconductor For Memories
 13 Analog Switches
 14 Analog-to-Digital Conversions
 15 Timing Circuits
Digital Electronics - G. K. Kharate 2012-07-12
 Digital Electronics is specially designed as a textbook for the undergraduate students of Electronics, Communciation, Computer Science, Electrical and Instrumentation Engineering for their introductory course on digital electronics or digital system

and design.

Allied Physics Paper I & II -

R Murugesan 2005

Paper-I | Waves & Oscillations |

Properties Of Matters |

Thermal Physics | Electricity

And Magnetism | Geometrical

Optics | Paper-Ii | Physical

Optics | Atomic Physics |

Nuclear Physics | Elements Of

Relativity And Quantum

Mechanics | Electronics

Practical Physics | Young'S

Modulus By Non-Uniform

Bending | Young'S Modulus (E)

Non-Uniform Bending | Rigidity

Modulus (Static Torsion

Method)|Rigidity Modulus By

Torsional Oscillations | Surface

Tension And Interfacial Surface

Tension Drop Weight Method |

Comparison Of Viscosities Of

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Specific Heat Capacity Of A

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Logic Gates And, Or, Not |

Zener Diode Characteristics |

Nand Gate As A Universal Gate

Digital Electronics—GATE,

PSUS AND ES Examination -

Satish K Karna

Test Prep for Digital

Electronics—GATE, PSUS AND

ES Examination

Digital Logic - Jefferson C.

Boyce 1982

Switching Theory & Logic

Design - Atul P. Godse 2009

Number Systems and

CodesPhilosophy of number

systems - complement

representation of negative

numbers - binary arithmetic -

binary codes - error detecting

and error correcting codes -

hamming codes.Boolean

Algebra and Switching

FunctionsFundamental

postulates of Boolean Algebra-

Basic theorems and properties

- switching functions -

Canonical and Standard forms -

Algebraic simplification -

digital logic gates, properties

of XOR gates - universal gates -

Multilevel NAND/NOR realizations. Minimization of Switching Functions Map method, Prime implicants, Don't care combinations, Minimal SOP and POS forms, Tabular Method, Prime - Implicant chart, simplification rules. Combinational Logic Design Design using conventional logic gates, Encoder, Decoder, Multiplexer, De-Multiplexer, Modular design IC chips, MUX Realization of switching functions Parity bit generator, Code-converters, Hazards and hazard free realizations. Programmable Logic Devices, Threshold Logic Basic PLD's-ROM, PROM, PLA, PLD Realization of Switching functions using PLD's. Capabilities and limitations of Threshold gate, Synthesis of Threshold functions, Multigate Synthesis. Sequential Circuits - I Classification of sequential circuits (Synchronous, Asynchronous, Pulse mode, Level mode with examples) Basic flop-flops-Triggering and excitation tables. Steps in

synchronous sequential circuit design. Design of modulo-N Ring and shift counters, Serial binary adder, sequence detector. Sequential Circuits - II Finite state machine- capabilities and limitations, Mealy and Moore models- minimization of completely specified and incompletely specified sequential machines, Partition techniques and Merger chart methods-concept of minimal cover table. Algorithmic State Machines Salient features of the ASM chart-Simple examples-System design using data path and control subsystems-control implementations-examples of Weighing machine and Binary multiplier.

Digital Electronic Circuits -

Shuqin Lou 2019-05-20
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.

Basic Digital Electronics - M.V. Subramanyam 2008

The textbook has been designed for the undergraduate students of Electrical and Electronics, Electronics and Communication, Computer Science, Electronics and Instrumentation, Information Technology and Electronics and Control Engineering. This book provides an accessible and practical treatment to many combinational and sequential circuits. Each topic has been discussed in sufficient depth to expose the fundamental principles, concepts, techniques which are necessary to understand the subject thoroughly. Salient Features of the Book Numerous worked-out examples highlight the need for intelligent approximation to achieve more accuracy in

lesser time. Short answer questions at the end of each chapter help in easy understanding of the subject.

Large number of review questions and unsolved problems to develop a clear understanding of basic principles. Previous GATE paper solutions are the unique feature of this book.

Modern Digital Electronics 4E - Jain 2010

Digital Techniques - William E. Tipton 1984

Signals, Systems and Communication - Bhagwandas P. Lathi 1991-05-01

Vector Spaces, Matrices and Tensors in Physics - M. C. Jain 2018-04-30

Vector spaces, matrices, and tensors in physics form an essential part of the mathematical background required by physicists. This book is written primarily as textbook for undergraduate and postgraduate students and as a reference book for working physicists. Special

emphasis is given to topics relevant to physics, for example linear independence and dependence of vectors, inner product, orthonormality, matrices as representations of linear transformations on vector spaces, similarity, eigenvalues, eigenvectors, diagonalization of matrices, expressing various physical quantities as tensors, tensorial formulation of vector algebra, calculus and geometry. The role of orthogonal, hermitian and unitary matrices in physics is highlighted.

**DIGITAL ELECTRONICS:
PRINCIPLES AND
INTEGRATED CIRCUITS -**

Anil K. Maini 2007

Market_Desc: · Undergraduate and graduate level students of different universities
Special Features: · Each chapter in the book, whether it is related to operational fundamentals or applications, is amply illustrated with diagrams and design examples· Each chapter concludes in a comprehensive self-evaluation exercise comprising multiple-choice questions (with answers) and

other type of objective type questions (with answers)· Unlike most of the books in print on the subject that are either too brief, lacking in illustrated examples and examination-oriented study material, or too voluminous, containing lot of redundant material, the book has been written keeping in mind the topics taught in the subject and covers in entirety what is required by undergraduate and graduate level students of engineering in electrical, electronics, instrumentation and control, computer science and information technology disciplines
About The Book: Digital Electronics is a precise and yet complete book covering both Digital Electronics Fundamentals and Integrated Circuits. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. Each chapter in the book is amply illustrated with diagrams and

design examples. Each chapter concludes in a comprehensive self-evaluation exercise comprising multiple-choice and objective type questions (with answers). The book has up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, and microcontrollers. This valuable reference book provides in-depth information about multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits.

FUNDAMENTALS OF DIGITAL CIRCUITS - A. ANAND KUMAR, 2016-07-18

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.

Modern Digital Electronics -

R. P. Jain 2004

SWITCHING THEORY AND LOGIC DESIGN - A. ANAND

KUMAR 2014-03-06

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 Design and Computer Organisation - D. Nasib S. Gill
2008-12

Digital Design and Computer Organization introduces digital design as it applies to the creation of computer systems.

It summarizes the tools of logic design and their mathematical basis, along with in depth coverage of combinational and sequential circuits. The book includes an accompanying CD that includes the majority of circuits highlighted in the text, delivering you hands-on experience in the simulation and observation of circuit functionality. These circuits were designed and tested with a user-friendly Electronics Workbench package (Multisim Textbook Edition) that enables your progression from truth tables onward to more complex designs. This volume differs from traditional digital design texts by providing a complete design of an AC-based CPU, allowing you to apply digital design directly to computer architecture. The book makes minimal reference to electrical properties and is vendor independent, allowing emphasis on the general design principles.

Foundation of Digital Electronics and Logic Design - Subir Kumar Sarkar
2014-12-10

This book focuses on the basic principles of digital electronics and logic design. It is designed as a textbook for undergraduate students of electronics, electrical engineering, computer science, physics, and information technology. The text covers the syllabi of several Indian and foreign universities. It depicts the comprehensive resources on the recent ideas in the area of digital electronics explored by leading experts from both industry and academia. A good number of diagrams are provided to illustrate the concepts related to digital electronics so that students can easily comprehend the subject. Solved examples within the text explain the concepts discussed and exercises are provided at the end of each chapter.

Computer Logic Design - M. Morris Mano 1972

Linear Integrated Circuits - D Choudhury Roy 2003
Designed Primarily For
Courses In Operational
Amplifier And Linear

Integrated Circuits For Electrical, Electronic, Instrumentation And Computer Engineering And Applied Science Students. Includes Detailed Coverage Of Fabrication Technology Of Integrated Circuits. Basic Principles Of Operational Amplifier, Internal Construction And Applications Have Been Discussed. Important Linear Ics Such As 555 Timer, 565 Phase-Locked Loop, Linear Voltage Regulator Ics 78/79 Xx And 723 Series D-A And A-D Converters Have Been Discussed In Individual Chapters. Each Topic Is Covered In Depth. Large Number Of Solved Problems, Review Questions And Experiments Are Given With Each Chapter For Better Understanding Of Text. Salient Features Of Second Edition * Additional Information Provided Wherever Necessary To Improve The Understanding

Of Linear Ics. * Chapter 2 Has Been Thoroughly Revised. * Dc & Ac Analysis Of Differential Amplifier Has Been Discussed In Detail. * The Section On Current Mirrors Has Been Thoroughly Updated. * More Solved Examples, Pspice Programs And Answers To Selected Problems Have Been Added.

Electrical Power Systems - C. L. Wadhwa 2009

About the Book: Electrical power system together with Generation, Distribution and utilization of Electrical Energy by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.