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Modern Digital Electronics 4E [Tata McGraw-Hill Education](#) **Modern Digital Electronics** **Modern Digital Electronics** **Digital Electronics Principles, Devices and Applications** [John Wiley & Sons](#) 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 ELECTRONICS PRACTICE USING INTEGRATED CIRCUITS** Chanakya Neeti [Diamond Pocket Books \(P\) Ltd.](#) One of the greatest figures of wisdom and knowledge in the Indian history is Chanakya. Chanakya is regarded as a great thinker and diplomat in India who is traditionally identified as Kautilya or Vishnu Gupta. Originally a professor of economics and political science at the ancient Takshashila University, Chanakya managed the first Maurya Emperor Chandragupta's rise to power at a young age. Instead of acquiring the seat of kingdom for himself, he crowned Chandragupta Maurya as the emperor and served as his chief advisor. Chanakya Neeti is a treatise on the ideal way of life, and shows Chanakya's deep study of the Indian way of life. These practical and powerful strategies provide a path to live an orderly and planned life. If these strategies are followed in any sphere of life, victory is certain. Chanakya also developed Neeti-Sutras (aphorisms ? pithy sentences) that tell people how they should behave. Chanakya used these sutras to groom Chandragupta and other selected disciples in the art of ruling a kingdom. But these sutras are also relevant in this modern age and are very useful for us. For the first time, Chanakya Neeti and Chanakya Sutras are compiled in this book to make Chanakya's invaluable wisdom easily available to the common readers. This book presents Chanakya's powerful strategies and principles in a very lucid manner for the benefit of our valuable readers. **SWITCHING THEORY AND LOGIC DESIGN** [PHI Learning Pvt. Ltd.](#) 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: PRINCIPLES AND INTEGRATED CIRCUITS** [John Wiley & Sons](#) **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. **Digital Design** [Pearson Educación](#) 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—GATE, PSUS AND ES Examination** [Vikas Publishing House](#) **Test Prep for Digital Electronics—GATE, PSUS AND ES Examination** **Digital Integrated Electronics** [McGraw-Hill College](#) /Table of Contents 1 Electronic Devices2 Operational Amplifiers and Comparators3 Logic Circuits4 Resistor-Transistor Logic and Integrated- Injunction Logic5 Diode-Transistor Logic6 Transistor-Transistor Logic7 Emitter- Coupled Logic8 MOS Gates9 Flip-Flops10 Registers and Counters11 Arithmetic Operations12 Semiconductor For Memories13 Analog Switches14 Analog-to-Digital Conversions15 Timing Circuits **Digital Electronic Circuits Principles and Practices** [Walter de Gruyter GmbH & Co KG](#) 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. **Digital Logic Design** [Elsevier](#) **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 **Vector Spaces, Matrices and Tensors in Physics** **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 Circuits And Design, 3E** **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 All-in-One** **Electronics Simplified** [KHANNA PUBLISHING HOUSE](#) **The All-in-one Electronics Simplified** is comprehensive treatise on the whole gamut of topics in Electronics in Q &A format. The book is primarily intended for undergraduate students of Electronics Engineering and covers six major subjects taught at the undergraduate level students of Electronics Engineering and covers six major subjects taught at the undergraduate level including Electronic Devices and Circuits, Network Analysis , Operational Amplifiers and Linear Integrated Circuits, Digital Electronics, Feedback and Control Systems and Measurements and Instrumentation. Each of the thirty chapters is configured as the Q&A part followed by a large number of Solved Problems. A comprehensive Self-Evaluation Exercise comprising multiple choice questions and other forms of objective type exercises concludes each chapter. **Switching Theory & Logic Design** **Number Systems and Codes****Philosophy of number systems - complement representation of negative numbers - binary arithmetic - binary codes - error detecting and error correcting codes - hamming codes.****Boolean Algebra and Switching Functions****Fundamental 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 Design With an Introduction to the Verilog HDL** [Pearson Academic](#) 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. ELECTRONICS Analog and Digital [PHI Learning Pvt. Ltd.](#) 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 [I K International Pvt Limited](#) 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 Electronics [OUP India](#) Digital Electronics is specially designed as a textbook for the undergraduate students of Electronics, Communication, Computer Science, Electrical and Instrumentation Engineering for their introductory course on digital electronics or digital system and design. Allied Physics Paper I & II [S. Chand Publishing](#) Paper-I | Waves & Oscillations | Properties Of Matter | 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 Two Liquids—Burette Method | Specific Heat Capacity Of A Liquid | Sonometer— Frequency Of A.C. Mains | Determination Of Radius Of Curvature | Air Wedge — Thickness Of A Wire | Spectrometer-Diffraction On Gravity- Wavelength Of Hg Lines | Potentiometer-Voltmeter Calibration | Post Office Box-Measure Of Resistance And Specific Resistance | Ballistic Galvanometer Figure Of Merit | Logic Gates And, Or, Not | Zener Diode Characteristics | NAND Gate As A Universal Gate Digital Design and Computer Organisation [Firewall Media](#) 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. Principles of Digital Electronics [PHI Learning Pvt. Ltd.](#) 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 most 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 PULSE AND DIGITAL CIRCUITS [PHI Learning Pvt. Ltd.](#) 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 Digital Electronics An Introduction to Theory and Practice [Prentice Hall](#) FUNDAMENTALS OF DIGITAL CIRCUITS [PHI Learning Pvt. Ltd.](#) 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. Digital Logic and Computer Design [Pearson Education India](#) 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. Digital Logic Design (gtu) Digital Computer Electronics An Introduction to Microcomputers Computer Architecture and Organization The third edition of Computer Architecture and Organization features a comprehensive updating of the material—especially case studies, worked examples, and problem sets—while retaining the book's time-proven emphasis on basic principles. Reflecting the dramatic changes in computer technology that have taken place over the last decade, the treatment of performance-related topics such as pipelines, caches, and RISC's has been expanded. Many examples and end-of-chapter problems have also been added. Digital Logic Operation and Analysis [Prentice Hall](#) Linear Integrated Circuits [New Age International](#) 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. Textbook of Applied Aeronautic Engineering Indian Journal of Pure & Applied Physics Digital Principles & Logic Design [Jones & Bartlett Learning](#) Learn FileMaker® Pro 10 provides an excellent reference to FileMaker Inc.'s award-winning database program for both beginners and advanced developers. From converting files created with previous versions of FileMaker Pro and sharing data on the web to creating reports and sorting data, this book offers a hands-on approach to getting the most out of your FileMaker Pro databases. Learn how to use the completely redesigned Status area, now known as the Status toolbar; send e-mail right from FileMaker with the SMTP-based Send Mail option; build reports quickly and easily with the Saved Finds feature; automate your database with scripts and activate those scripts with the new script trigger feature; integrate your Bento data into your FileMaker files; work with the enhanced Web viewer. Basic VLSI Design Technology Technical Questions and Solutions [CRC Press](#) The current cutting-edge VLSI circuit design technologies provide end-users with many applications, increased processing power and improved cost effectiveness. This trend is accelerating, with significant implications on future VLSI and systems design. VLSI design engineers are always in demand for front-end and back-end design applications. The book aims to give future and current VLSI design engineers a robust understanding of the underlying principles of the subject. It not only focuses on circuit design processes obeying VLSI rules but also on technological aspects of fabrication. The Hardware Description Language (HDL) Verilog is explained along with its modelling style. The book also covers CMOS design from the digital systems level to the circuit level. The book clearly explains fundamental principles and is a guide to good design practices. The book is intended as a reference book for senior undergraduate, first-year post graduate students, researchers as well as academicians in VLSI design, electronics & electrical engineering and materials science. The basics and applications of VLSI design from digital system design to IC fabrication and FPGA Prototyping are each covered in a comprehensive manner. At the end of each unit is a section with technical questions including solutions which will serve as an excellent teaching aid to all readers. Technical topics discussed in the book include: • Digital System Design • Design flow for IC fabrication and FPGA based prototyping • Verilog HDL • IC Fabrication Technology • CMOS VLSI Design • Miscellaneous (It covers basics of Electronics, and Reconfigurable computing, PLDs, Latest technology etc.). MECHATRONICS [PHI Learning Pvt. Ltd.](#) Mechatronics is today fast developing as an interdisciplinary branch of engineering. This book offers a comprehensive coverage of the design and application of mechatronic systems. It discusses in detail the construction, operation, features and applications of various components of mechatronic systems. The text, profusely illustrated with diagrams, emphasizes the readers' multidisciplinary skills and ability to design and maintain different mechatronic systems. Key Features : • Motivational assignments given at the end of each chapter and the Case Studies provided at the end of the book direct the readers to applications of mechatronics concepts in the real-world problems encountered in engineering practice. • Separate chapters are devoted to the advanced topics of Robotics and Microelectromechanical Systems (MEMS). • The text is supported by a fair number of photographs of mechatronic systems and their components. This student-friendly text is primarily intended for the students of undergraduate and diploma courses in mechanical, electronics, industrial, and mechatronics engineering. It will also be of immense use to practising engineers. Signals, Systems and Communication Electrical Power Systems [New Age International](#) 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.