

Digital Electronics Principles And Applications

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[TENTH EDITION Digital Systems - Cnic](#)

Digital Electronics: Principles and Applications is a concise and practical text that prepares students for entry-level electronics jobs. Its level and approach are ideal for both electronics and electricity programs looking for a relatively short, applied book.

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Description. 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.

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These are digital electronics fundamentals (chapters 1 to 6), combinational logic circuits (chapters 7 and 8), programmable logic devices (chapter 9), sequential logic circuits (chapters 10 and 11), data conversion devices and circuits (chapter 12), microprocessors, microcontrollers and microcomputers (chapters 13 to 15) and digital ...

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The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers,...

The eighth edition of Digital Electronics: Principles and Applications provides a concise, modern approach to this fascinating subject. It has been written so that a so that a student needs no prior knowledge of electrical theory and principles and at a level that allows students with limited math and reading skills can gain a clear understanding of concepts and application covered in a digital electronics course. The textbook has been noted for its easy-to-read style and colorful illustrations. It is ideal for a wide range of electronics courses, especially programs in which students must learn the essentials and quickly apply them to real job situations.

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.

With the presence of enhanced pedagogical features, the text will help readers in understanding fundamental concepts of electronics engineering.

"Electronics: Principles and Applications" introduces principles and applications of analog devices, circuits and systems. Like earlier editions, the Sixth Edition combines theory with real world applications in a well-paced sequence that introduces students to such topics as semiconductors, op amps, linear integrated circuits, and switching power supplies. Its purpose is to prepare students to effectively diagnose, repair, verify, and install electronic circuits and systems. Prerequisites are a command of algebra and an understanding of fundamental electrical concepts.

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