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Digital Electronics - G. K. Kharate 2012-07-12

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.

Industry Interactive Innovations in Science, Engineering and Technology - Swapan Bhattacharyya 2017-07-20

The book is a collection of peer-reviewed scientific papers submitted by active researchers in the International Conference on Industry Interactive Innovation in Science, Engineering and Technology (I3SET 2016). The conference is a collective initiative of all departments and disciplines of JIS College of Engineering (an autonomous institution), Kalyani, West Bengal, India. The primary objective of the conference is to strengthen interdisciplinary research and encourage innovation in a demand-driven way as desired by the industry for escalating technology for mankind. A galaxy of academicians, professionals, scientists, industry people and researchers from different parts of the country and abroad shared and contributed their knowledge. The major areas of I3SET 2016 include nonconventional energy and advanced power systems; nanotechnology and applications; pattern recognition and machine intelligence; digital signal and image processing; modern instrumentation, control, robotics and automation; civil engineering and structural design; real-time and embedded systems, communication and devices; advanced optimization techniques; biotechnology, biomedical instrumentation and bioinformatics; and outcome based education.

BASIC ELECTRONICS - SANTIRAM KAL 2009-01-14

This comprehensive and well-organized text discusses the fundamentals of electronic communication, such as devices and analog and digital circuits, which are so essential for an understanding of digital electronics. Professor Santiram Kal, with his wealth of knowledge and his years of teaching experience, compresses, within the covers of a single volume, all the aspects of electronics - both analog and digital - encompassing devices such as microprocessors, microcontrollers, fibre optics, and photonics. In so doing, he has struck a fine balance between analog and digital electronics. A distinguishing feature of the book is that it gives case studies in modern applications of electronics, including information technology, that is, DBMS, multimedia, computer networks, Internet, and optical communication. Worked-out examples, interspersed throughout the text, and the large number of diagrams should enable the student to have a better grasp of the subject. Besides, exercises, given at the end of each chapter, will sharpen the student's mind in self-study. These student-friendly features are intended to enhance the value of the text and make it both useful and interesting.

Practical Electronics for Inventors 2/E - Paul Scherz 2006-12-05

THE BOOK THAT MAKES ELECTRONICS MAKE SENSE This intuitive, applications-driven guide to electronics for hobbyists, engineers, and students doesn't overload readers with technical detail. Instead, it tells you-and shows you-what basic and advanced electronics parts and components do, and how they work. Chock-full of illustrations, Practical Electronics for Inventors offers over 750 hand-drawn images that provide clear, detailed instructions that can help turn theoretical ideas into real-life inventions and gadgets. CRYSTAL CLEAR AND COMPREHENSIVE Covering the entire field of electronics, from basics through analog and digital, AC and DC, integrated circuits (ICs), semiconductors, stepper motors and servos, LCD displays, and various input/output devices, this guide even includes a full chapter on the latest microcontrollers. A favorite memory-jogger for working electronics engineers, Practical Electronics for Inventors is also the ideal manual for those just getting started in circuit design. If you want to succeed in turning your ideas into workable electronic gadgets and inventions, is THE book. Starting with a light review of electronics history, physics, and math, the book provides an easy-to-understand overview of all major electronic elements,

including: Basic passive components o Resistors, capacitors, inductors, transformers o Discrete passive circuits o Current-limiting networks, voltage dividers, filter circuits, attenuators o Discrete active devices o Diodes, transistors, thyristors o Microcontrollers o Rectifiers, amplifiers, modulators, mixers, voltage regulators ENTHUSIASTIC READERS HELPED US MAKE THIS BOOK EVEN BETTER This revised, improved, and completely updated second edition reflects suggestions offered by the loyal hobbyists and inventors who made the first edition a bestseller. Reader-suggested improvements in this guide include: Thoroughly expanded and improved theory chapter New sections covering test equipment, optoelectronics, microcontroller circuits, and more New and revised drawings Answered problems throughout the book Practical Electronics for Inventors takes you through reading schematics, building and testing prototypes, purchasing electronic components, and safe work practices. You'll find all this in a guide that's destined to get your creative-and inventive-juices flowing.

Switching Theory & Logic Design - Atul P. Godse 2009

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 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.

SENSORS AND TRANSDUCERS - D. PATRANABI 2003-01-01

This text is a lucid presentation of the principles of working of all types of sensors and transducers which form the prime components of the instrumentation systems. The characteristics of the sensors and transducers and the operating principles of transducer technologies have been discussed in considerable detail. Besides covering conventional

sensors such as electromechanical, thermal, magnetic, radiation, and electroanalytical, the recent advances in sensor technologies including smart and intelligent sensors used in automated systems are also comprehensively described. The application aspects of sensors used in several fields such as automobiles, manufacturing, medical, and environment are fully illustrated. With a straightforward approach the text is aimed at building a sound understanding of the fundamentals, and inculcating analytical skills needed for design and operation. Numerous schematic representations, examples, and review questions help transcend underlying basics to automation and instrumentation. The book with incisive explanations and all the pedagogic attributes is designed to serve the needs of the engineering students of instrumentation, chemical, mechanical, and electrical disciplines. It will also be a useful text for the students of applied sciences.

Basic Electronics and Linear Circuits - N. N. Bhargava 2013

Advances in Computer Science and Information Technology. Computer Science and Information Technology - Natarajan Meghanathan 2012-02-13

The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 55 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on advances in computer science and information technology; and ad hoc and ubiquitous computing.

Mathematics for Physicists - Susan Lea 2004

Often physics professionals are not comfortable using the mathematical tools that they learn in school, and this book discusses the mathematics that physics professionals need to master. This book provides the necessary tools and shows how to use those tools specifically in physics problems. (Midwest).

Hands-On Electronics - Daniel M. Kaplan 2003-05-15

Packed full of real circuits to build and test, Hands-On Electronics is a unique introduction to analog and digital electronics theory and practice. Ideal both as a college textbook and for self-study, the friendly style, clear illustrations and construction details included in the book encourage rapid and effective learning of analog and digital circuit design theory. All the major topics for a typical one semester course are covered including RC circuits, diodes, transistors, op-amps, oscillators, TTL logic, counters, D/A converters and more. There are also chapters explaining how to use the equipment needed for the examples (oscilloscope, multimeter and breadboard) together with pin-out diagrams and manufacturers' specifications for all the key components referred to in the book.

Digital Electronics - Tokheim 2004-11-01

Computational Intelligence Methods for Super-Resolution in Image Processing Applications - Anand Deshpande 2021-05-28

This book explores the application of deep learning techniques within a particularly difficult computational type of computer vision (CV) problem – super-resolution (SR). The authors present and discuss ways to apply computational intelligence (CI) methods to SR. The volume also explores the possibility of using different kinds of CV techniques to develop and enhance the tools/processes related to SR. The application areas covered include biomedical engineering, healthcare applications, medicine, histology, and material science. The book will be a valuable reference for anyone concerned with multiple multimodal images, especially professionals working in remote sensing, nanotechnology and immunology at research institutes, healthcare facilities, biotechnology institutions, agribusiness services, veterinary facilities, and universities.

Digital Principles and Applications - Albert Paul Malvino 1986

A Textbook of Applied Electronics - RS Sedha 2008-02

The present book has been thoroughly revised and lot of useful material has been added. Several photographs of electronic devices and their specifications sheets have been included. This will help the students to have a better understanding of the electronic devices and circuits from application point of view. The mistake and misprints, which have crept in, have been eliminated in this edition.

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 State Machine Design - David J. Comer 1995

From one of the best-known and successful authors in the field comes this new edition of Digital Logic and State Machine Design. The text is concise and practical, and covers the important area of digital system design specifically for undergraduates. Comer's primary goal is to illustrate that sequential circuits can be designed using state machine techniques. These methods apply to sequential circuit design as efficiently as Boolean algebra and Karnaugh mapping methods apply to combinatorial design. After presenting the techniques, Comer proceeds directly into designing digital systems. This task consists of producing the schematic or block diagram of the system based on nothing more than a given set of specifications. The design serves as the basis for the construction of the actual hardware system. In the new Third Edition, Comer introduces state machines earlier than in previous editions, and adds entire chapters on programmable logic devices and computer organization.

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.

Digital Television - Hervé Benoit 2002

Writing for readers with a background in electronics, some knowledge of analog television, and a basic digital background, Benoit (Philips Semiconductors, France) intends this book as a summary and starting point rather than a handbook for experts. He describes the complex problems that had to be solved in order to define reliable standards for broadcasting digital pictures, and he explains the solutions chosen for the European digital video broadcasting (DVB) system based on the international MPEG-2 compression standard. The book ends with a description of a digital integrated receiver decoder, or set-top box, and a discussion of future prospects. Adapted and translated by the author from a 1996 work published in French (Paris: Dunod). The second edition adds a chapter on software interoperability. Annotation copyrighted by Book News, Inc., Portland, OR.

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.

Data Structures: A Pseudocode Approach with C - Richard F. Gilberg 2004-10-11

This second edition expands upon the solid, practical foundation established in the first edition of the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Programming in C - Reema Thareja 2018-09-30

Beginning with the basics of computers, the book provides an in-depth analysis of various constructs of C. The key topics include iterative and decision-control statements, functions, recursion, arrays, strings, pointers, structures and unions, and file management. It deals separately with the fundamental concepts of linked lists - the preferred data structure for dynamic allocation of memory. The book also includes a chapter on different searching and sorting algorithms and analysis of time and space complexity of algorithms.

2000 Solved Problems in Digital Electronics - S. P. Bali 2008-03-01

"2000 Solved Problems in Digital Electronics" presents a wide variety of problems as well as theoretical concepts and design information making this book a unique offering for the student taking a Digital Logic Design course. The author aims to bridge the gap between blackboard and breadboard by focusing on chips and devices that are available now.

Network Analysis & Synthesis (Including Linear System Analysis) - C. L. Wadhwa 2007

This Book Has Been Designed As A Basic Text For Undergraduate Students Of Electrical, Electronics And Communication And Computer Engineering. In A Systematic And Friendly Manner, The Book Explains Not Only The Fundamental Concepts Like Circuit Elements, Kirchhoff S Laws, Network Equations And Resonance, But Also The Relatively Advanced Topics Like State Variable Analysis, Modern Filters, Active Rc Filters And Sensitivity Considerations. Salient Features * Basic Circuit Elements, Time And Periodic Signals And Different Types Of Systems Defined And Explained. * Network Reduction Techniques And Source Transformation Discussed. * Network Theorems Explained Using Typical Examples. * Solution Of Networks Using Graph Theory Discussed. * Analysis Of First Order, Second Order Circuits And A Perfect Transform Using Differential Equations Discussed. * Theory And Application Of Fourier And Laplace Transforms Discussed In Detail. * Interconnections Of Two-Port Networks And Their Performance In Terms Of Their Poles And Zeros Emphasised. * Both Foster And Cauer Forms Of Realisation Explained In Network Synthesis. * Classical And Modern Filter Theory Explained. * Z-Transform For Discrete Systems Explained. * Analogous Systems And Spice Discussed. * Numerous Solved Examples And Practice Problems For A Thorough Graph Of The Subject. * A Huge Question Bank Of Multiple Choice Questions With Answers Exhaustively Covering The Topics Discussed. With All These Features, The Book Would Be Extremely Useful Not Only For Undergraduate Engineering Students But Also For Amie And Gate Candidates And Practising Engineers.

Computer Fundamentals & Programming in C - Reema Thareja 2012-04-24

Computer Fundamentals and Programming in C is designed to serve as a textbook for the undergraduate students of engineering, computer science, computer applications, and information technology. The book seeks to provide a thorough overview of all the fundamental concepts related to computer science and programming. It lays down the foundation for all the advanced courses that a student is expected to learn in the following semesters.

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
Electronic Devices and Circuits - Franz Monssen 1996

Principles of Electronics - Colin David Simpson 1996

One of the most comprehensive, clearly written books on electronic technology, Simpon's invaluable guide offers a concise and practical overview of the basic principles, theorems, circuit behavior and problem-solving procedures of this intriguing and fast-paced science. Examines a

broad spectrum of topics, such as atomic structure, Kirchhoff's laws, energy, power, introductory circuit analysis techniques, Thevenin's theorem, the maximum power transfer theorem, electric circuit analysis, magnetism, resonance semiconductor diodes, electron current flow, and much more. Smoothly integrates the flow of material in a nonmathematical format without sacrificing depth of coverage or accuracy to help readers grasp more complex concepts and gain a more thorough understanding of the principles of electronics. Includes many practical applications, problems and examples emphasizing troubleshooting, design, and safety to provide a solid foundation in the field of electronics. An ideal reference source for electronic engineering technicians and those involved in the electronic technology field.

Discrete Mathematics with Applications - Thomas Koshy 2004-01-19

This approachable text studies discrete objects and the relationships that bind them. It helps students understand and apply the power of discrete math to digital computer systems and other modern applications. It provides excellent preparation for courses in linear algebra, number theory, and modern/abstract algebra and for computer science courses in data structures, algorithms, programming languages, compilers, databases, and computation. * Covers all recommended topics in a self-contained, comprehensive, and understandable format for students and new professionals * Emphasizes problem-solving techniques, pattern recognition, conjecturing, induction, applications of varying nature, proof techniques, algorithm development and correctness, and numeric computations * Weaves numerous applications into the text * Helps students learn by doing with a wealth of examples and exercises: - 560 examples worked out in detail - More than 3,700 exercises - More than 150 computer assignments - More than 600 writing projects * Includes chapter summaries of important vocabulary, formulas, and properties, plus the chapter review exercises * Features interesting anecdotes and biographies of 60 mathematicians and computer scientists * Instructor's Manual available for adopters * Student Solutions Manual available separately for purchase (ISBN: 0124211828)

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.

Electronic Circuits and Systems - John Douglas Ryder 1976

Basic Electronics - BL Theraja 2007

Aims of the Book: The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study: 1. Diploma in Electronics and Communication Engineering (ECE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like City and Guilds of London Institute (CGLI). 2. B.E. (Elect. & Comm.)-4-year course offered by various Engineering Colleges. Efforts have been made to cover the papers: Electronics-I & II and Pulse and Digital Circuits. 3. B.Sc. (Elect.)-3-Year vocationalised course recently introduced by Approach.

A VHDL Primer - Jayaram Bhasker 1995

This book details molecular methodologies used in identifying a disease

gene, from the initial stage of study design to the next stage of preliminary locus identification, and ending with stages involved in target characterization and validation.

Digital Principles and Design - Donald D. Givone 2003

Introduction to System Design Using Integrated Circuits - B. S. Sonde 1992

Beginning With An Introduction To Integrated Electronics, The Book Describes The Basic Digital And Linear Ics In Detail Together With Some Applications And Building Blocks Of Digital Systems. Principles Of System Design Using Ics Are Then Explained And A Number Of System Design Examples Using The Latest Ics Are Worked Out. Useful Supplementary Information On Ics Is Included In The Appendices And A List Of References To Published Work Is Given At The End. The Book Covers What Is Latest In The State-Of-The-Art In Ics Including Ls T Tl, F Ttl, N-Mos, High-Speed Cmos, I2L, Cclds, Proms, Plas, Asics And Microprocessors. The Main Emphasis Here Is On Providing A Clear Insight Into The Characteristics And Limitations Of Ics Upto Lsi/Vlsi Level, Their Parameters, Circuit Features And Electronic Equipment/System Design Based On Them. Students Of The B.E./M.E./M.Sc (Physics) Courses Specializing In Electronics Or Communication Engineering Would Find This Book A Convenient Text/Reference Source For A First In-Depth Understanding Of System Design Using Ics. The Book Would Also Be Useful To R&D Engineers In Electronics/Communication Engineering.

The Measure of Madness: - Cheryl Paradis 2010-07-01

Enter the "fascinating" and frightening world of modern forensic psychology as experienced by one of the most respected practitioners in the field today (Robert K. Tanenbaum, New York Times–bestselling author). At the heart of countless crimes lie the mysteries of the human mind. In this eye-opening book, Dr. Cheryl Paradis draws back the curtain on the fascinating world of forensic psychology, and revisits the most notorious and puzzling cases she has handled in her multifaceted career. Her riveting, sometimes shocking stories reveal the crucial and often surprising role forensic psychology plays in the pursuit of justice—in which the accused may truly believe their own bizarre lies, creating a world that pushes them into committing horrific, violent crimes. Join Dr. Paradis in a stark concrete cell with the indicted as she takes on the daunting task of mapping the suspect's madness or exposing it as fakery. Take a front-row seat in a tense, packed courtroom, where her testimony can determine an individual's fate—or if justice will be truly served. The criminal thought process has never been so intimately revealed—or so darkly compelling—as in this "excellent and entertaining" journey into the darkest corners of the human mind (Booklist).

Digital Fundamentals with VHDL - Thomas L. Floyd 2003

Adapted from Floyd's best-selling *Digital Fundamentals*—widely recognized as the authority in digital electronics—this book also applies basic VHDL concepts to the description of logic circuits. It introduces digital logic concepts and functions in the same way as the original book, but with an emphasis on PLDs rather than fixed-function logic devices. Reflects the trend away from fixed-function logic devices with an emphasis on CPLDs and FPGAs, while offering coverage of fixed-function logic for reference. Presents VHDL as a tool for implementing the digital logic in programmable logic devices. Offers complete, up-to-date coverage, from the basic digital logic concepts to the latest in digital signal processing. Emphasizes applications and troubleshooting. Provides Digital System Applications in most chapters, illustrating how

basic logic functions can be applied in real-world situations; many use VHDL to implement a system. Provides many examples with related problems. Includes ample illustrations throughout. A solid introduction to digital systems and programming in VHDL for design engineers or software engineers.

GATE Computer Science and Information Technology - Trishna Knowledge Systems

This book has been prepared by a group of faculties who are highly experienced in training GATE candidates and are also subject matter experts. As a result this book would serve as a one-stop solution for any GATE aspirant to crack the examination. The book is divided into three parts covering, (1) General Aptitude, (2) Engineering Mathematics and (3) Computer Science and Information Technology. Coverage is as per the syllabus prescribed for GATE and topics are handled in a comprehensive manner beginning from the basics and progressing in a step-by-step manner supported by ample number of solved and unsolved problems. Extra care has been taken to present the content in a modular and systematic manner to facilitate easy understanding of all topics.

Digital Electronics and Design with VHDL - Volnei A. Pedroni 2008-01-25

Digital Electronics and Design with VHDL offers a friendly presentation of the fundamental principles and practices of modern digital design. Unlike any other book in this field, transistor-level implementations are also included, which allow the readers to gain a solid understanding of a circuit's real potential and limitations, and to develop a realistic perspective on the practical design of actual integrated circuits.

Coverage includes the largest selection available of digital circuits in all categories (combinational, sequential, logical, or arithmetic); and detailed digital design techniques, with a thorough discussion on state-machine modeling for the analysis and design of complex sequential systems. Key technologies used in modern circuits are also described, including Bipolar, MOS, ROM/RAM, and CPLD/FPGA chips, as well as codes and techniques used in data storage and transmission. Designs are illustrated by means of complete, realistic applications using VHDL, where the complete code, comments, and simulation results are included. This text is ideal for courses in Digital Design, Digital Logic, Digital Electronics, VLSI, and VHDL; and industry practitioners in digital electronics. Comprehensive coverage of fundamental digital concepts and principles, as well as complete, realistic, industry-standard designs. Many circuits shown with internal details at the transistor-level, as in real integrated circuits. Actual technologies used in state-of-the-art digital circuits presented in conjunction with fundamental concepts and principles. Six chapters dedicated to VHDL-based techniques, with all VHDL-based designs synthesized onto CPLD/FPGA chips.

Data Structures Using C - Reema Thareja 2014-07-11

This second edition of *Data Structures Using C* has been developed to provide a comprehensive and consistent coverage of both the abstract concepts of data structures as well as the implementation of these concepts using C language. It begins with a thorough overview of the concepts of C programming followed by introduction of different data structures and methods to analyse the complexity of different algorithms. It then connects these concepts and applies them to the study of various data structures such as arrays, strings, linked lists, stacks, queues, trees, heaps, and graphs. The book utilizes a systematic approach wherein the design of each of the data structures is followed by algorithms of different operations that can be performed on them, and the analysis of these algorithms in terms of their running times. Each chapter includes a variety of end-chapter exercises in the form of MCQs with answers, review questions, and programming exercises to help readers test their knowledge.