
Anna University 7th Semester Ece

Software Project Management
Optical Fiber Communications
Advanced Computer Architectures: A Design Space Approach
Programming in C
Digital Electronics
An Introduction to Real-time Systems
Control Systems Engineering
Principal of Optical Communication and Opto Electronics
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Protocols and Architectures for Wireless Sensor Networks

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LYRIC HALLIE

Software Project Management Pearson Education India
From its first appearance in 1995, this book has been consistently well received by tutors and students alike. Now in its fourth edition, this textbook is highly regarded for providing a complete introduction to Software Project Management for both undergraduate and postgraduate students. The new edition retains its clear, accessible style and comprehensive coverage, plus the many examples and exercises throughout the chapters that illustrate the practical application of software project management principles. Reflecting new developments in

software project management, the fourth edition has been developed to ensure that the coverage is up-to-date and contemporary. This includes new and expanded coverage of topics such as virtual teams and agile methods.

Optical Fiber Communications Pearson Education India
The thoroughly revised & updated 2nd edition of Disha's Bestseller book 'Shortcuts in Reasoning (Verbal, Non-Verbal & Analytical) will help aspirants in learning the various tips and tricks required to crack the Reasoning section of the various Competitive Exams. The book emphasizes on the short-cut methods through which one can solve any problem before time. Thus, the book not only enhances your efficiency but also helps you to master the subject. Each chapter covers theory involving shortcut approaches and formula followed by Solved Examples

which depicts the use of the shortcuts. The book is further supported by a Practice Exercise with 300+ MCQs with detailed Solutions. The book has been divided into 30 Chapters covering all types of Reasoning - Verbal, Non-Verbal, Analytical & Critical. The book will prove to be an asset for all competitive examinations like UPSC (IAS Prelim), Banking, CLAT, SSC, Insurance, Railway Recruitment Board Examinations, CBI, MBA, Sub-Inspectors of Police, CPO and various other competitive examinations.

Advanced Computer Architectures: A Design Space Approach
Pearson Education India

Appropriate for a first course in Real-Time System Design and Programming for junior/senior-level courses in Computer Science and Electrical Engineering. This text introduces the nature of real-time, concurrent, distributed systems, presenting a specific set of techniques for designing and implementing such systems. It develops a "systems way of thinking" about software that is intended to serve readers throughout their careers.

Programming in C PHI Learning Pvt. Ltd.

Practical design and performance solutions for every ad hoc wireless network. Ad Hoc Wireless Networks comprise mobile devices that use wireless transmission for communication. They can be set up anywhere and any time because they eliminate the complexities of infrastructure setup and central administration and they have enormous commercial and military potential. Now, there's a book that addresses every major issue related to their design and performance. Ad Hoc Wireless Networks: Architectures and Protocols presents state-of-the-art techniques and solutions, and supports them with easy-to-understand examples. The book starts off with the fundamentals of wireless

networking (wireless PANs, LANs, MANs, WANs, and wireless Internet) and goes on to address such current topics as Wi-Fi networks, optical wireless networks, and hybrid wireless architectures. Coverage includes: Medium access control, routing, multicasting, and transport protocols QoS provisioning, energy management, security, multihop pricing, and much more. In-depth discussion of wireless sensor networks and ultra wideband technology. More than 200 examples and end-of-chapter problems. Ad Hoc Wireless Networks is an invaluable resource for every network engineer, technical manager, and researcher designing or building ad hoc wireless networks.

Digital Electronics Cengage Learning

This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors ("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.

An Introduction to Real-time Systems Rudra Publications

The book has been developed to provide comprehensive and consistent coverage of both the concepts of data structures as well as implementation of these concepts using C programming. The book utilizes a systematic approach wherein each data structure is explained using examples followed by its implementation using a programming language. It begins with the introduction to data types. In this, an overview of various

types of data structures is given and asymptotic notations, best case, worst case and average case time complexity is discussed. The book then focuses on the linear data structures such as arrays, stacks, queues and linked lists. In these units each concept is followed by its implementation and logic explanation part. The book then covers the non-linear data structures such as trees and graphs. These data structures are very well explained with the help of illustrative diagrams, examples and implementations. The text book then covers two important topics - hashing and file structures. While explaining the hashing - various hashing methods, and collision handling techniques are explained with necessary illustrations and examples. File structures are demonstrated by implementing sequential, index sequential and random file organization. Finally searching and sorting algorithms, their implementation and time complexities are discussed. The sorting and searching methods are illustrated systematically with the help of examples. The explanation in this book is in a very simple language along with clear and concise form which will help the students to have clear-cut understanding of the subject.

Control Systems Engineering Morgan Kaufmann

Providing accessible coverage of the basics and practical aspects of total quality management, this book is intended for students of management and engineering. The text adopts a realistic approach to the teaching of the subject with the principal focus on the philosophy of total quality management and its role in today's world of fierce business competition. Discusses the mechanism of quality control, quality assurance and different types of quality control tools and their usage. Features the

Japanese management philosophy, quality awards and standards. Presents the differences between total quality management and business process re-engineering and approaches to integrate them. Describes the various aspects of benchmarking, capability maturity model and customer relationship management.

Principal of Optical Communication and Opto Electronics John Wiley & Sons

Bestselling author William Stallings presents comprehensive, up-to-date coverage of TCP performance design issues. A high-level overview of cutting-edge network and Intranet design, this book focuses on high-speed technologies like routing for multimedia, how to manage traffic flow, and compression techniques for maximizing throughput.

Introduction to C Programming Artech House Microwave Library

This book provides some recent advances in design nanometer VLSI chips. The selected topics try to present some open problems and challenges with important topics ranging from design tools, new post-silicon devices, GPU-based parallel computing, emerging 3D integration, and antenna design. The book consists of two parts, with chapters such as: VLSI design for multi-sensor smart systems on a chip, Three-dimensional integrated circuits design for thousand-core processors, Parallel symbolic analysis of large analog circuits on GPU platforms, Algorithms for CAD tools VLSI design, A multilevel memetic algorithm for large SAT-encoded problems, etc.

Matrix Analysis of Structures SI Version Technical Publications

This book is extensively designed for the third semester ECE students as per Anna university syllabus R-2013. The following

chapters constitute the following units Chapter 1, 2 and :-Unit 1 Chapter 3 covers :-Unit 2 Chapter 4 and 5 covers:-Unit 3 Chapter 6 covers :- Unit 4 Chapter 7 covers :- Unit 5 Chapter 8 covers :- Unit 5

CHAPTER 1: Introduces the Number System, binary arithmetic and codes. **CHAPTER 2:** Deals with Boolean algebra, simplification using Boolean theorems, K-map method, Quine McCluskey method, logic gates, implementation of switching function using basic Logical Gates and Universal Gates. **CHAPTER 3:** Describes the combinational circuits like Adder, Subtractor, Multiplier, Divider, magnitude comparator, encoder, decoder, code converters, Multiplexer and Demultiplexer. **CHAPTER 4:** Describes with Latches, Flip-Flops, Registers and Counters **CHAPTER 5:** Concentrates on the Analysis as well as design of synchronous sequential circuits, Design of synchronous counters, sequence generator and Sequence detector **CHAPTER 6:** Concentrates the Design as well as Analysis of Fundamental Mode circuits, Pulse mode Circuits, Hazard Free Circuits, ASM Chart and Design of Asynchronous counters. **CHAPTER 7:** Discussion on memory devices which includes ROM, RAM, PLA, PAL, Sequential logic devices and ASIC. **CHAPTER 8:** Concentrate on the comparison, operation and characteristics of RTL, DTL, TTL, ECL and MOS families. We have taken enough care to present the definitions and statements of basic laws and theorems, problems with simple steps to make the students familiar with the fundamentals of Digital Design.

Embedded System Design Sree kamalamani Publications

This book takes a fresh, student-oriented approach to teaching the material covered in the senior- and first-year graduate-level matrix structural analysis course. Unlike traditional texts for this

course that are difficult to read, Kassimali takes special care to provide understandable and exceptionally clear explanations of concepts, step-by-step procedures for analysis, flowcharts, and interesting and modern examples, producing a technically and mathematically accurate presentation of the subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Advanced Microprocessors Disha Publications
 Publisher Description
Disaster Management Oxford University Press, USA
 About Book - The inspiration behind this book is when I felt that there is need of simplified book on "Ad Hoc and Sensor Networks" that can help the students to understand the concepts in an easy manner. This book is written as per the latest Anna University syllabi (Regulation 2017). This book contains five units which covers the whole syllabus. Unit 1: Deals with the fundamentals of Ad hoc network and Sensor Network. It also describes the different routing protocols for Ad Hoc Wireless Networks. Unit 2: Provides an in-depth knowledge on sensor network architecture and design issues. Unit 3: Understands the MAC layer and transport layer issues. It also describes the protocols used in MAC later and transport layer. Unit 4: Illustrates the security issues possible in Ad hoc and Sensor networks. Unit 5: Provides an exposure to mote programming platforms and tools. At the end of every unit, possible short answer and long answer questions are also given. This book will be beneficial for the Engineering students as it helps in easy understanding of the concepts in best and easier way.

Modern Wireless Communications PHI Learning Pvt. Ltd.

Developed for an introductory course, this up-to-date text discusses the major building blocks of present-day fibre-optic systems and presents their use in communications and sensing. Starting with easy-to-understand ray propagation in optical fibres, the book progresses towards the more complex topics of wave propagation in planar and cylindrical waveguides. Special emphasis has been given to the treatment of single-mode fibres, the backbone of present-day optical communication systems. It also offers a detailed treatment of the theory behind optoelectronic sources (LEDs and injection laser diodes), detectors, modulators, and optical amplifiers. Contemporary in terms of technology, it presents topics such as erbium-doped fibre amplifiers (EDFAs) and wavelength-division multiplexing (WDM) along with dense WDM. Building upon these fundamental principles, the book introduces the reader to system design considerations for analog and digital fibre-optic communications. Emphasis has also been given to fibre-optic sensors and laser-based systems along with their industrial and other applications. This student-friendly text is suitable for undergraduate students pursuing instrumentation, electronics, and communication engineering. Contents: Preface Introduction Part 1: Fiber Optics Ray Propagation in Optical Fibers Wave Propagation in Planar Waveguides Wave Propagation in Cylindrical Waveguides Single-mode Fibers Optical Fiber Cables and Connections Part 2: Optoelectronics Optoelectronic Sources Optoelectronic Detectors Optoelectronic Modulators Optical Amplifiers Part 3: Applications Wavelength-division Multiplexing Fiber-optic Communication Systems Fiber-optic Sensors Laser-based Systems Part 4: Lab-oriented Projects Index

Elements of Properties of Matter World Scientific

The book is a comprehensive work on Properties of Matter which introduces the students to the fundamentals of the subject. It adopts a unique 'ab initio' approach to the presentation of matter- solids, liquids and gasses- with extensive usage of Calculus throughout the book. For each topic, the focus is on optimum blend of theory as well as practical application. Examples and extensive exercises solved with the logarithms reinforce the concepts and stimulate the desire among users to test how far they have grasped and imbibed the basic principles. It primarily caters to the undergraduate courses offered in Indian universities.

Ad Hoc Wireless Networks Oxford University Press, USA

Learn all you need to know about wireless sensor networks! Protocols and Architectures for Wireless Sensor Networks provides a thorough description of the nuts and bolts of wireless sensor networks. The authors give an overview of the state-of-the-art, putting all the individual solutions into perspective with one and other. Numerous practical examples, case studies and illustrations demonstrate the theory, techniques and results presented. The clear chapter structure, listing learning objectives, outline and summarizing key points, help guide the reader expertly through the material. Protocols and Architectures for Wireless Sensor Networks: Covers architecture and communications protocols in detail with practical implementation examples and case studies. Provides an understanding of mutual relationships and dependencies between different protocols and architectural decisions. Offers an in-depth investigation of relevant protocol mechanisms. Shows which protocols are

suitable for which tasks within a wireless sensor network and in which circumstances they perform efficiently. Features an extensive website with the bibliography, PowerPoint slides, additional exercises and worked solutions. This text provides academic researchers, graduate students in computer science, computer engineering, and electrical engineering, as well as practitioners in industry and research engineers with an understanding of the specific design challenges and solutions for wireless sensor networks. Check out www.wiley.com/go/wsn for accompanying course material! "I am deeply impressed by the book of Karl & Willig. It is by far the most complete source for wireless sensor networks...The book covers almost all topics related to sensor networks, gives an amazing number of references, and, thus, is the perfect source for students, teachers, and researchers. Throughout the book the reader will find high quality text, figures, formulas, comparisons etc. - all you need for a sound basis to start sensor network research." Prof. Jochen Schiller, Institute of Computer Science, Freie Universität Berlin

Shortcuts in Reasoning (Verbal, Non-Verbal, Analytical & Critical) for Competitive Exams 2nd Edition McGraw-Hill Companies

Beginning with an overview of the basic concepts of computers, the book provides an exhaustive coverage of C programming constructs. It then focuses on arrays, strings, functions, pointers, user-defined data types, and files. In addition, the book also provides a chapter on linked lists - a popular data structure - and different operations that can be performed on such lists. Students will find this book an excellent companion for self-study owing to its easy-to-understand approach with plenty of programs

complete with source codes, sample outputs, and test cases.

Wireless Sensor Networks John Wiley & Sons

This text is intended for the undergraduate engineering students in Electrical and Electronics Engineering, Electronics and Communication Engineering, and Electronics and Instrumentation Engineering, and those pursuing postgraduate courses in Applied Electronics and VLSI Design. With the electronic devices and chips becoming smaller and smaller, the sizes of circuits and transistors on the microchips are approaching atomic levels. And so, Very Large-Scale Integration (VLSI) Design refers to the process of placing hundreds of thousands of electronic components on a single chip which nearly all modern computer architectures employ, and this technology has assumed a significant role in today's tech savvy world. This well-organized, up-to-date and compact text explains the basic concepts of MOS technology including the fabrication methods, MOS characteristic behaviour, and design processes for layouts, etc. in a crisp and easy-to-learn style. The latest and most advanced techniques for maximising performance, minimising power consumption, and achieving rapid design turnarounds are discussed with great skill by the authors. Key Features □ Gives an in-depth analysis of MOS structure, device characteristics, modelling and MOS device fabrication techniques. □ Provides detailed description of CMOS design of combinatorial, sequential and arithmetic circuits with emphasis on practical applications. □ Offers an insight into the CMOS testing techniques for the design of VLSI circuits. □ Gives a number of solved problems in VHDL and Verilog languages. □ Provides a number of short answer questions to help the students during examinations.

Data Structures PHI Learning Pvt. Ltd.

'Introduction to C Programming' is designed to serve as a textbook for the undergraduate students of engineering, computer applications and computer science for a basic course on C programming. The book focuses on the fundamentals to enable students to write effective C programs.

Power System Analysis, Operation and Control Pearson Education India

This book is designed for undergraduate and postgraduate students of Computer Science and Engineering, Information Technology, Electronics and Communication Engineering, and Electrical Engineering. The book comprehensively covers all the important topics in digital image processing and pattern recognition along with the fundamental concepts, mathematical preliminaries and theoretical derivations of significant theorems.

The image processing topics include coverage of image formation, digitization, lower level processing, image analysis, image compression, and so on. The topics on pattern recognition include statistical decision making, decision tree learning, artificial neural networks, clustering and others. An application of simulated annealing for edge detection is described in an appendix. The book is profusely illustrated with more than 200 figures and sketches as an added feature. **KEY FEATURES:** Provides a large number of worked examples to strengthen the grasp of the concepts. Lays considerable emphasis on the algorithms in order to teach students how to write good practical programs for problem solving. Devotes a separate chapter to currently used image format standards. Offers problems at the end of each chapter to help students test their understanding of the fundamentals of the subject.