

Computer Oriented Numerical Methods By V Rajaraman Free

FUNDAMENTALS OF COMPUTERS **Introduction to Information Technology** **COMPUTER PROGRAMMING IN FORTRAN 77** *Fundamentals of Computers* *Fundamentals of Computers* Analysis and Design of Information Systems **COMPUTER ORIENTED NUMERICAL METHODS. COMPUTER BASICS AND C PROGRAMMING** **COMPUTER ORIENTED NUMERICAL METHODS** **COMPUTER PROGRAMMING IN FORTRAN 90 AND 95** **Super Computers** COMPUTER ORGANIZATION AND ARCHITECTURE An Introduction to Digital Computer Design PARALLEL COMPUTERS ARCHITECTURE AND PROGRAMMING *SOLID AND LIQUID WASTE MANAGEMENT* *WASTE TO WEALTH* *GROUND BREAKING INVENTIONS IN INFORMATION AND COMMUNICATION TECHNOLOGY* *DIGITAL LOGIC AND COMPUTER ORGANIZATION* **Mining of Massive Datasets** ESSENTIALS OF E-COMMERCE TECHNOLOGY COMPUTER PRIMER **COMPUTER PROGRAMMING IN C, SECOND EDITION** **Computer Fundamentals** *Elements of Parallel Computing* *Fundamentals of Computer* **Computer Programming in C** **AN INTRODUCTION TO DIGITAL COMPUTER DESIGN** **Ecology and Environment** *Fundamentals of Computers* Introduction To Computational Mathematics **GROUND BREAKING INVENTIONS IN INFORMATION AND COMMUNICATION TECHNOLOGY.** **Computer Oriented Numerical Methods** **Finding Shiva** **Structured Programming and Problem-solving with PASCAL** *BUSINESS PROCESS MANAGEMENT* Fundamentals of Software

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Engineering **Digital Electronics Innovation by India for India**
Introduction to Computer Science, 2/e Programming in C
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Introduction to Information Technology Dec 05 2022

Emphasizes the fundamental "science" of information technology rather than being a cook book of skills. This book defines IT as the technology that is used to acquire, store, organise, process and disseminate processed data. It examines processing all types of data: numbers, text, images, audio and video data, and discusses topics such as image, audio and video compression technologies.

BUSINESS PROCESS MANAGEMENT Mar 04 2020 Business Process Management (BPM) is about managing all the work that is necessary for delivering an end product or service. This book is well-suited for teaching an academic course as a part of a final year Bachelor and Master Degree programs in ITC, Management, and also, other related disciplines. It can also be used for

conducting an equivalent training programme for in-house professionals. Although no book can be a substitute for the wide and varied experience of an instructor, this book will help the instructor to concentrate on teaching rather than worrying about creating the teaching material and assembling the student material. In view of the likely differences in background of the readers, some material has been placed into appendices to enable them to read on a need to know basis. Besides, this book, in its present form, is equally useful for the professionals, who wish to grasp the essentials of BPM without attending a formal instructional course.

KEY FEATURES

- Chapters are appropriately organized as per the process life cycle
- Written in bullet format for easy grasping
- Comprises theory and its applications systematically
- Emphasizes relevant deployment issues
- Separate chapter on Performance Monitoring
- Highly illustrative with diagrams and sketches
- Separate appendix on BPMS

TARGET AUDIENCE

- ME (Computer Science/ Engineering/Technology)
- MBA (Information Systems)
- MCA students

DIGITAL LOGIC AND COMPUTER ORGANIZATION Aug 21 2021

This introductory text on 'digital logic and computer organization' presents a logical treatment of all the fundamental concepts necessary to understand the organization and design of a computer. It is designed to cover the requirements of a first-course in computer organization for undergraduate Computer Science, Electronics, or MCA students. Beginning from first principles, the text guides students through to a stage where they are able to design and build a small computer with available IC chips. Starting with the foundation material on data representation, computer arithmetic and combinatorial and sequential circuit design, the text explains ALU design and includes a discussion on an ALU IC chip. It also discusses Algorithmic State Machine and its representation using a Hardware Description Language before shifting to computer

organization. The evolutionary development of a small hypothetical computer is described illustrating hardware-software trade-off in computer organization. Its instruction set is designed giving reasons why each new instruction is introduced. This is followed by a description of the general features of a CPU, organization of main memory and I/O systems. The book concludes with a chapter describing the features of a real computer, namely the Intel Pentium. An appendix describes a number of laboratory experiments which can be put together by students, culminating in the design of a toy computer. Key Features • Self-contained presentation of digital logic and computer organization with minimal pre-requisites • Large number of examples provided throughout the book • Each chapter begins with learning goals and ends with a summary to aid self-study by students.

Mining of Massive Datasets Jul 20 2021 Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

Structured Programming and Problem-solving with PASCAL Apr 04 2020 This is an introductory text emphasizing the problem-solving approach to computing, progressing from the development of a systematic and disciplined approach to the discovery of algorithms. Carefully chosen examples highlight important programming concepts and illustrate the capabilities of the PL/1 language.

COMPUTER ORGANIZATION AND ARCHITECTURE Jan 26 2022 Designed as an introductory text for the students of computer science, computer applications, electronics engineering and information technology for their first course on the organization and architecture of computers, this accessible, student friendly text gives a clear and in-depth analysis of the basic principles underlying the subject. This self-contained text devotes one full chapter to the basics of digital logic. While the initial chapters describe in detail about computer organization, including CPU

design, ALU design, memory design and I/O organization, the text also deals with Assembly Language Programming for Pentium using NASM assembler. What distinguishes the text is the special attention it pays to Cache and Virtual Memory organization, as well as to RISC architecture and the intricacies of pipelining. All these discussions are climaxed by an illuminating discussion on parallel computers which shows how processors are interconnected to create a variety of parallel computers. KEY FEATURES □ Self-contained presentation starting with data representation and ending with advanced parallel computer architecture. □ Systematic and logical organization of topics. □ Large number of worked-out examples and exercises. □ Contains basics of assembly language programming. □ Each chapter has learning objectives and a detailed summary to help students to quickly revise the material.

Fundamentals of Computers Oct 03 2022

COMPUTER PROGRAMMING IN FORTRAN 90 AND 95 Mar

28 2022 This book introduces Computer Programming to a

beginner, using Fortran 90 and its recent extension Fortran 95.

While Fortran 77 has been used for many years and is currently very popular, computer scientists have been seriously concerned about good programming practice to promote development of reliable programs. Thus, the International Standards

Organization set up a group to 'modernise' Fortran and introduce

new features which have made languages such as Pascal and C popular. The committee took over a decade to come up with the

new standard, Fortran 90. Fortran 90 has introduced many new

features in Fortran, such as recursion, pointers, user-defined data types etc., which were hitherto available only in languages such

as Pascal and C. Fortran 90 is not an evolutionary change of

Fortran 77 but is drastically different. Though Fortran 77

programs can be run using a Fortran 90 compiler, Fortran 90 is

so different that the author felt it was not a good idea to just

revise Fortran 77 and introduce Fortran 90 in some places in the

book. Thus this book is entirely new and introduces Fortran 90 from basics. In 1996 some small extensions were made to Fortran 90 and has called Fortran 95. This book also discusses these features. As all new programs in Fortran will henceforth be written in Fortran 90, it is essential for students to learn this language. The methodology of presentation, however, closely follows the one used by the author in his popular book on Fortran 77.

FUNDAMENTALS OF COMPUTERS Jan 06 2023 The sixth edition of the highly acclaimed “Fundamentals of Computers” lucidly presents how a computer system functions. Both hardware and software aspects of computers are covered. The book begins with how numeric and character data are represented in a computer, how various input and output units function, how different types of memory units are organized, and how data is processed by the processor. The interconnection and communication between the I/O units, the memory, and the processor is explained clearly and concisely. Software concepts such as programming languages, operating systems, and communication protocols are discussed. With growing use of wireless to access computer networks, cellular wireless communication systems, WiFi (Wireless high fidelity), and WiMAX have become important. Thus it has now become part of “fundamental knowledge” of computers and has been included. Besides this, use of computers in multimedia processing has become commonplace and hence is discussed. With the increase in speed of networks and consequently the Internet, new computing environments such as peer to peer, grid, and cloud computing have emerged and will change the future of computing. Hence a new chapter on this topic has been included in this edition. This book is an ideal text for undergraduate and postgraduate students of Computer Applications (BCA and MCA), undergraduate students of engineering and computer science who study fundamentals of computers as a core course, and students of management who should all know the basics of

computer hardware and software. It is ideally suited for working professionals who want to update their knowledge of fundamentals of computers. Key features

- Fully updated retaining the style and all contents of the fifth edition.
- In-depth discussion of both wired and wireless computer networks.
- Extensive discussion of analog and digital communications.
- Advanced topics such as multiprogramming, virtual memory, DMA, RISC, DSP, RFID, Smart Cards, WiGig, GSM, CDMA, novel I/O devices, and multimedia compression (MP3, MPEG) are described from first principles.
- A new chapter on Emerging Computing Environments, namely, peer to peer, grid, and cloud computing, has been added for the first time in an entry level book.
- Each chapter begins with learning goals and ends with a summary to aid self-study.
- Includes an updated glossary of over 340 technical terms used in the book.

Computer Fundamentals Mar 16 2021 Computer Fundamentals is specifically designed to be used at the beginner level. It covers all the basic hardware and software concepts in computers and its peripherals in a very lucid manner.

SOLID AND LIQUID WASTE MANAGEMENT WASTE TO WEALTH Oct 23 2021 Economic development of any nation is possible only if the environmental protection laws are followed seriously. Wastes, if not treated effectively, may harm public health leading to the deterioration of ecosystem and ultimately to the growth and economy of the nation. The coverage of both solid waste as well as liquid waste management in a single volume makes this book unique. It discusses various economical methods to manage wastes providing a practical approach to the book. It gives the knowledge of important techniques for converting wastes into the products useful for the mankind and also informs readers about the Indian legal framework relating to the solid and liquid waste management. The technologies explained in the book are field-tested and have been practically implemented either in India or the United States. Hence, these techniques are highly

viable for communities and industries to improve their waste management practices. Blending theory and practices of waste management, the authors provide extensive case studies from their on-job experiences to exemplify how solid and liquid wastes can be managed successfully. The chapter on 'municipal waste management' exclusively covers the technologies applied to convert construction and demolition wastes and organic wastes into useful products. With the increase in electronic wastes, a chapter on 'electronic waste management' has found place in the book. Besides, the text covers management of plastic wastes, biomedical wastes, radioactive wastes, hazardous wastes, and also operations and maintenance of the treatment facilities. The chapter on 'liquid waste management' is focused on municipal wastewater and common effluent treatment plant for industrial wastewater. The review questions at the end of each chapter help students to assess their knowledge and develop self-efficacy in the subject. Whereas, the appendices provide performance evaluation of solid waste management systems and sewage treatment plants, numerical problems for practice, and glossary of important terms. The book primarily caters to the needs of undergraduate and postgraduate courses on Environmental Science and Engineering; Energy and Environmental Engineering; Environmental Engineering and Management; Municipal Solid Waste Management. Besides, it provides practical information to environmental professionals and to the students of Industrial Management, Civil Engineering and Biotechnology.

Programming in C Sep 29 2019 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.

Fundamentals of Computers Sep 09 2020

COMPUTER BASICS AND C PROGRAMMING May 30 2022

This book introduces students to the basics of computers, software and internet along with how to program computers using the C language. It is intended for an introductory course that gives beginning engineering and science students a firm rooting in the fundamental principles of computers and information technology, and also provides invaluable insights into key concepts of computing through development of skills in programming and problem solving using C language. To this end, the book is eminently suitable for the first-year engineering students of all branches and MCA students, as per the prescribed syllabus of several universities. C is a difficult language to learn if it is not methodically introduced. The book explains C and its basic programming techniques in a way suitable for beginning students. It begins by giving students a solid foundation in algorithms to help them grasp the overall concepts of programming a computer as a problem-solving tool. Simple aspects of C are introduced first to enable students to quickly start writing programs. More difficult concepts in the latter parts of the book, such as pointers and their use, have been presented in an accessible manner making the learning of C an exciting and interesting experience. The methodology used is to illustrate each new concept with a program and emphasize a good style in programming to allow students to gain sufficient skills in problem solving. **KEY FEATURES** Self-contained introduction to both computers and programming for beginners All important features of C illustrated with over 100 examples Good style in programming emphasized Laboratory exercises on applications of MS Office, namely, Word processing, Spreadsheet, PowerPoint are included.

Innovation by India for India Dec 01 2019

COMPUTER PROGRAMMING IN FORTRAN 77 Nov 04 2022

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February 7, 2023 Pdf For
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This is a revised and enlarged version of the author's book which received wide acclamations in its earlier three editions. It provides a lucid and in-depth introduction to the programming language Fortran 77 which is widely used by scientists and engineers. The fourth edition is completely revised chapterwise and also minor corrections incorporated. A new standard for Fortran called Fortran 90 was introduced in early 90s and compilers for this version of Fortran were sold in early 1995 by computer vendors. All Fortran 77 programs will run without change with Fortran 90 compilers; however some aspects of Fortran 77 have been declared obsolete and will not run on future Fortran compilers_ these are explained in this revised edition. An appendix consolidates these features. Fortran 90 is introduced in a new chapter which summarises all its features.

Introduction To Computational Mathematics Aug 09 2020 This unique book provides a comprehensive introduction to computational mathematics, which forms an essential part of modern numerical algorithms and scientific computing. It uses a theorem-free approach with just the right balance between mathematics and numerical algorithms. It covers all major topics in computational mathematics with a wide range of carefully selected numerical algorithms, ranging from the root-finding algorithms, numerical integration, numerical methods of partial differential equations, finite element methods, optimization algorithms, stochastic models, to nonlinear curve-fitting and swarm optimization. Especially suitable for undergraduates and graduates in computational mathematics, numerical algorithms, and scientific computing, it can be used as a textbook and/or reference book.

Super Computers Feb 24 2022 This book explains what a supercomputer is and why such a machine is needed to solve challenging problems in science and engineering. The architecture of super computers which distinguishes them from other computers is explained and the need to vectorise programs

to make effective use of supercomputers is brought out. **Digital Electronics** Jan 02 2020 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, demultiplexers, 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.

COMPUTER PROGRAMMING IN C, SECOND EDITION Apr 16 2021 The book, now in its Second Edition, follows the structure of the first edition. It introduces computer programming to a beginner using the programming language C. The version of C used is the one standardised by the American National Standards Institute (ANSI C). C has rapidly gained users due to

its efficiency, availability of rich data structures, a large variety of operators, and its affinity to the UNIX operating system. C is a difficult language to learn if it is not methodically approached. The attempt has been to introduce the basic aspects of C to enable the student to quickly start writing C programs and postpone more difficult features of C to later chapters. After reading the first eleven chapters, a beginner can start writing complete programs to solve useful problems. Difficult concepts such as the use of pointers and recursion are explained lucidly with many examples. The book is eminently suitable for undergraduate and postgraduate students of computer science/engineering students as per the prescribed syllabus of several universities.

KEY FEATURES

- A self-contained introduction to programming for beginners using the C language
- Eminently suitable for self-study even by high school students
- All important programming language features illustrated with over 100 example programs
- Good style in programming explained and illustrated

NEW TO THE SECOND EDITION

- Chapters with programs have a new section at the end, giving style notes relevant to that chapter
- Every chapter is reviewed and revised, correcting minor errors
- Appendix I is rewritten to enable students to execute programs on desktop or laptop computers using Linux or Windows environment

TARGET AUDIENCE

- BE/B.Tech (CSE)
- BCA/MCA
- B.Sc./M.Sc. (Computer Science)

Fundamentals of Software Engineering Feb 01 2020

An Introduction to Digital Computer Design Dec 25 2021

Finding Shiva May 06 2020 After high school, I was not sure about whether I should pursue dance or a technical subject.

Awaiting clarity, I spent many months considering my options.

While I was in the midst of this confusion, someone asked me,

“What brings you closer to yourself?” I didn’t respond

immediately, but in my mind the answer was clear. “Dance brings me closer to myself,” I thought. It was such an odd question, yet

strangely it influenced a life decision. How can one be closer to or farther from oneself? I knew that dance would begin to reveal something to me at some point in time, but I wasn't sure of what this thing would be. The act of dancing holds something within it that I wanted to discover. What if I could imbibe my life with the clarity of thought, precision, control and simultaneous surrender that I am able to wield as a performer? Wouldn't life change inexplicably for the better? The applause bursts like rain clattering From a cloud too heavy to hold, My elation bathes me as sweat trickles Down my forehead a moment before It stings my eye to remind me to see, They applaud the dance, not me. If I were to fall prey, my dance entwined With only moments of applause to remind Of my days of yore. No never not. Dance is me and yet not at all... - Rukmini Vijayakumar

COMPUTER ORIENTED NUMERICAL METHODS. Jun 30 2022

Fundamentals of Computers Sep 02 2022

Computer Programming in C Dec 13 2020

Ecology and Environment Oct 11 2020 The alarming rise in greenhouse gas and pollution level which has resulted in serious environmental and ecological harm is the biggest concern today. It has not only made the lives of mankind miserable but also threatens their very existence. The survival of human beings on Earth depends on the availability of clean environment. The nature can be protected only when there is a good understanding of the ecology. For this, young people and the general public have to become aware of the underlying issues associated with maintaining a clean environment and protecting the nature. Ecology and Environment has delved in depth on the subject and brings a broad perspective of the various issues. Following the curriculum of University Grants Commission, the book covers different types of ecosystem on the earth. It deals with the effective and sustainable use of natural resources which includes water, forest, mineral resources in the ground and productive land. The book explains the population trends in the world and

India, and how it is impacting the environment. The role of public participation in promoting environmental sustainability is explored too.

GROUNDBREAKING INVENTIONS IN INFORMATION AND COMMUNICATION TECHNOLOGY Sep 21 2021

Advances in computers and communications have revolutionised the way we live. This has happened in a short span of sixty-five years. Today we wonder how people lived without access to mobile phones and the Internet. • This book seeks to answer the following questions lucidly to a non-specialist general reader: • How did this revolution happen? • What groundbreaking inventions led to this revolution? • Why are they groundbreaking inventions? • Who were the innovators and inventors of these technologies? • What led them to these inventions? Fifteen groundbreaking inventions: Fortran, Integrated Circuits, Relational Database Management Systems, Local Area Networks, Personal Computers, Public Key Encryption, Computer Graphics, Internet, GPS, World Wide Web, Search Engines, Digitisation and Compression of Multimedia, Mobile Computing, Cloud Computing, and Deep Learning (AI) are described cogently by Professor V. Rajaraman, a doyen of Computer Science education and research in India. TARGET AUDIENCE • Students, academicians, professionals in the field of ICT • Anyone who wants to know about ICT

Computer Organization & Architecture 7e Aug 28 2019

PARALLEL COMPUTERS ARCHITECTURE AND PROGRAMMING

Nov 23 2021 Today all computers, from tablet/desktop computers to super computers, work in parallel. A basic knowledge of the architecture of parallel computers and how to program them, is thus, essential for students of computer science and IT professionals. In its second edition, the book retains the lucidity of the first edition and has added new material to reflect the advances in parallel computers. It is designed as text for the final year undergraduate students of computer science and engineering and information technology. It describes the

principles of designing parallel computers and how to program them. This second edition, while retaining the general structure of the earlier book, has added two new chapters, 'Core Level Parallel Processing' and 'Grid and Cloud Computing' based on the emergence of parallel computers on a single silicon chip popularly known as multicore processors and the rapid developments in Cloud Computing. All chapters have been revised and some chapters are re-written to reflect the emergence of multicore processors and the use of MapReduce in processing vast amounts of data. The new edition begins with an introduction to how to solve problems in parallel and describes how parallelism is used in improving the performance of computers. The topics discussed include instruction level parallel processing, architecture of parallel computers, multicore processors, grid and cloud computing, parallel algorithms, parallel programming, compiler transformations, operating systems for parallel computers, and performance evaluation of parallel computers.

COMPUTER PRIMER May 18 2021 An introductory level text for high school students, this book elucidates the step-by-step procedures used to solve problems and demonstrates the simplicity with which one can read and write computer programmes using BASIC language. It explains how a computer works, using an elementary model of the computer. All programmes are worked out on the IBM PC and involve a minimum of mathematics. This new edition is thoroughly revised and updated to incorporate recent developments in the field. It also contains a large number of worked-out examples and exercises with solutions to assist self-study. It can be used by all interested beginners and laymen as well.

AN INTRODUCTION TO DIGITAL COMPUTER DESIGN Nov 11 2020 This highly acclaimed, well established, book now in its fifth edition, is intended for an introductory course in digital computer design for B.Sc. students of computer science, B.Tech.

students of computer science and engineering, and BCA/MCA students of computer applications. A knowledge of programming in C or Java would be useful to give the student a proper perspective to appreciate the development of the subject. The first part of the book presents the basic tools and develops procedures suitable for the design of digital circuits and small digital systems. It equips students with a firm understanding of logic principles before they study the intricacies of logic organization and architecture of computers in the second part. Besides discussing data representation, arithmetic operations, Boolean algebra and its application in designing combinatorial and sequential switching circuits, the book introduces the Algorithmic State Machines which are used to develop a hardware description language for the design of digital systems. The organization of a small hypothetical computer is described to illustrate how instruction sets are evolved. Real computers (namely, Pentium and MIPS machines) are described and compared with the hypothetical computer. After discussing the features of a CPU, I/O devices and I/O organization, cache and virtual memory, the book concludes with a new chapter on the use of parallelism to enhance the speed of computers. Besides, the fifth edition has new material in CMOS gates, MSI/ALU and Pentium5 architecture. The chapter on Cache and Virtual Memory has been rewritten.

GROUND BREAKING INVENTIONS IN INFORMATION AND COMMUNICATION TECHNOLOGY. Jul 08 2020

COMPUTER ORIENTED NUMERICAL METHODS Apr 28

2022 This book is a concise and lucid introduction to computer oriented numerical methods with well-chosen graphical illustrations that give an insight into the mechanism of various methods. The book develops computational algorithms for solving non-linear algebraic equation, sets of linear equations, curve-fitting, integration, differentiation, and solving ordinary differential equations. **OUTSTANDING FEATURES** • Elementary

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presentation of numerical methods using computers for solving a variety of problems for students who have only basic level knowledge of mathematics. • Geometrical illustrations used to explain how numerical algorithms are evolved. • Emphasis on implementation of numerical algorithm on computers. • Detailed discussion of IEEE standard for representing floating point numbers. • Algorithms derived and presented using a simple English based structured language. • Truncation and rounding errors in numerical calculations explained. • Each chapter starts with learning goals and all methods illustrated with numerical examples. • Appendix gives pointers to open source libraries for numerical computation.

Introduction to Computer Science, 2/e Oct 30 2019 Discusses most ideas behind a computer in a simple and straightforward manner. The book is also useful to computer enthusiasts who wish to gain fundamental knowledge of computers.

ESSENTIALS OF E-COMMERCE TECHNOLOGY Jun 18 2021 This book is designed to acquaint the readers with major aspects of e-commerce with particular emphasis on technology such as cryptography, e-payment and mobile payment security. The book presents a layered architecture of e-commerce systems with six layers. The physical layer (the bottommost layer) described first, provides the basic communication infrastructure needed by e-commerce. The next layer described is the logical layer consisting of Local Area Networks, the Internet, Intranet, etc. which provide connectivity. The layer above is the network services layer which provides e-mail and World Wide Web applications. Above this is a very important messaging layer of e-commerce which provides facilities for exchanging messages securely using the communication infrastructure. Here various methods of encryption, public key infrastructure and digital signature are discussed. It is also explained as to how the messaging layer is used to exchange structured electronic documents, using XML. The next layer called middleman services layer, describes the

design of home page of an organization and elaborates various payment services such as credit card, e cash, smart card, etc. The topmost layer is on applications, namely, B2C, B2B and C2C e commerce which are defined and described at the beginning of the book. As use of mobile phones and mobile network is rapidly increasing, a whole chapter is devoted to explain m-commerce. Of special interest are detailed discussions of Wireless Application Protocol, security issues and payment methods. A complete chapter is also devoted to new developments in multimedia information goods such as e-books, MP3 compressed audio and digital quality video. A unique feature of these goods is the method of delivery which also uses the mobile Internet infrastructure. Finally, the legal framework of e-commerce provided by the Information Technology Act 2000 (and the amended act of 2008) is explained. This book with its numerous student-friendly features is an ideal text for undergraduate and postgraduate students of Computer Science and Information Technology (BSc and MSc), Computer Applications (BCA and MCA), and for undergraduate engineering students of Computer Science and Engineering and Information Technology. Besides, it would be useful to professionals for quickly understanding the basics of e commerce. Key Features :

- Gives detailed discussions of security and payment schemes in e-commerce.
- Discusses essentials of m-commerce technology including WAP protocol and mobile security.
- Discusses e-commerce of multimedia such as e-books, MP3 audio and video on demand.
- Provides learning aids such as chapter summaries, over 300 review questions and 350 objective type questions.

Fundamentals of Computer Jan 14 2021

Elements of Parallel Computing Feb 12 2021

Computer Oriented Numerical Methods Jun 06 2020

Analysis and Design of Information Systems Aug 01 2022