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FUNDAMENTALS OF COMPUTERS Fundamentals of Computers
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COMPUTER PROGRAMMING IN FORTRAN 77 COMPUTER
PRIMER COMPUTER PROGRAMMING IN C, SECOND EDITION
Fundamentals of Computers INTRODUCTION TO INFORMATION
TECHNOLOGY ESSENTIALS OF E-COMMERCE TECHNOLOGY
DIGITAL LOGIC AND COMPUTER ORGANIZATION COMPUTER
ORIENTED NUMERICAL METHODS AN INTRODUCTION TO
DIGITAL COMPUTER DESIGN Fundamentals of Computer
COMPUTER PROGRAMMING IN FORTRAN 90 AND 95
COMPUTER ORGANIZATION AND ARCHITECTURE PARALLEL
COMPUTERS ARCHITECTURE AND PROGRAMMING
GROUNDBREAKING INVENTIONS IN INFORMATION AND
COMMUNICATION TECHNOLOGY Elements of Parallel
Computing Computer Programming in C Analysis and Design of
Information Systems COMPUTER ORIENTED NUMERICAL
METHODS. Principles of Computer Programming
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Fundamentals of Computers An Introduction to Digital Computer
Design PARALLEL COMPUTERS Computer Programming In
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1955-2010 Computer Programming in FORTRAN 77 The

Technological Indian COMPUTER PROGRAMMING IN COBOL AN
INTRODUCTION TO DIGITAL COMPUTER DESIGN Computer
Programming in Pascal Computer Programming in Fortran IV
INTRODUCTION TO DIGITAL COMPUTER DESIGN Computer
Introduction to Computer Science

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 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)

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.

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. Today, parallel computing arouses enormous interest among students and professionals as it is clear that, as the new millennium progresses, all computers will work in parallel. A basic knowledge of the design and use of parallel computers is, therefore, essential for both students of computing and users of computers. Designed as an introductory-level textbook for the final year undergraduate students of computer science and engineering, this well-organized book covers state-of-the-art principles and techniques for designing and programming parallel computers. In the process, Professor Rajaraman and Dr. Siva Ram Murthy, with their wealth of knowledge and years of teaching and research experience, give a masterly analysis of the various aspects of parallel computing. The book begins with an introduction to the current state and developments in parallel computing, then it goes on to give a detailed discussion on such topics as instruction level parallel processing, architecture of parallel computers, parallel algorithms and parallel programming. Besides, the book gives an in-depth coverage of compiler transformations and operating systems for parallel computers. The text concludes with a chapter on performance evaluation of parallel computers. Interspersed with copious examples and numerous exercises, this timely book should prove to be a handy and treasured volume for students as well as professionals. 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. 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 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.

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. 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 multiprocessing, 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.

In the late 1800s India seemed to be left behind by the Industrial Revolution. Today there are many technological Indians around the world but relatively few focus on India's problems. Ross Bassett—drawing on a database of every Indian to graduate from the Massachusetts Institute of Technology through 2000—explains the role of MIT in this outcome. 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. 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. 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. 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. his textbook is designed to teach a first course in Information Technology (IT) to all undergraduate students. In view of the all-pervasive nature of IT in today's world a decision has been taken by many universities to introduce IT as a compulsory core course to all Bachelor's degree students regardless of their specialisation. This book is intended for such a course. The approach taken in this book is to emphasize the fundamental "Science" of Information Technology rather than a cook book of skills. Skills can be learnt easily by practice with a computer and by using instructions given in simple web lessons that have been cited in the References. The book defines Information Technology as the technology that is used to acquire, store, organize, process and disseminate processed data, namely, information. The unique aspect of the book is to examine processing all types of data: numbers, text, images, audio and video data. As IT is a rapidly changing field, we have taken the approach to emphasize reasonably stable, fundamental concepts on which the technology is built. A unique feature of the book is the discussion of topics such as image, audio and video compression technologies from first principles. We have also

described the latest technologies such as 'e-wallets' and 'cloud computing'. The book is suitable for all Bachelor's degree students in Science, Arts, Computer Applications, and Commerce. It is also useful for general reading to learn about IT and its latest trends. Those who are curious to know, the principles used to design jpg, mp3 and mpeg4 compression, the image formats—bmp, tiff, gif, png, and jpg, search engines, payment systems such as BHIM and Paytm, and cloud computing, to mention a few of the technologies discussed, will find this book useful.

KEY FEATURES

- Provides comprehensive coverage of all basic concepts of IT from first principles
- Explains acquisition, compression, storage, organization, processing and dissemination of multimedia data
- Simple explanation of mp3, jpg, and mpeg4 compression
- Explains how computer networks and the Internet work and their applications
- Covers business data processing, World Wide Web, e-commerce, and IT laws
- Discusses social impacts of IT and career opportunities in IT and IT enabled services
- Designed for self-study with every chapter starting with learning objectives and concluding with a comprehensive summary and a large number of exercises.

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. 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.

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.

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