V Rajaraman Fundamentals Of Computers Fourth Edition

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FUNDAMENTALS OF COMPUTERS

PHI Learning Pvt. Ltd.

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.

Basic Computer Engineering Precise PHI Learning Pvt. Ltd.

The use of computation and simulation has become an essential part of the scientific process. Being able to transform a theory into an algorithm requires significant theoretical insight, detailed physical and mathematical understanding, and a working level of competency in programming. This upper-division text provides an unusually broad survey of the topics of modern computational physics from a multidisciplinary, computational science point of view. Its philosophy is rooted in learning by doing (assisted by many model programs), with new scientific materials as well as with the Python programming language. Python has become very popular, particularly for physics education and large scientific projects. It is probably the easiest programming language to learn for beginners, yet is also used for mainstream scientific computing, and has packages for excellent graphics and even symbolic manipulations. The text is designed for an upper-level undergraduate or beginning graduate course and provides the reader with the essential knowledge to understand computational tools and mathematical methods well enough to be successful. As part of the teaching of using computers to solve scientific problems, the reader is encouraged to work through a sample problem stated at the beginning of each chapter or unit, which involves studying the text, writing, debugging and running programs, visualizing the results, and the expressing in words what has been done and what can be concluded. Then there are exercises and problems at the end of each chapter for the reader to work on their own (with model programs given for that purpose).

PARALLEL COMPUTERS ARCHITECTURE AND PROGRAMMING PHI Learning Pvt. Ltd.

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.

Computer Fundamentals and Programming in C (RMK). PHI Learning Pvt. Ltd.

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.

COMPUTER ORIENTED NUMERICAL METHODS **New Age International**

The third edition of Fundamentals of Information Technology is a 'must have' book not only for BCA and MBA students, but also for all those who want to strengthen their knowledge of computers. The additional chapter on MS Office is a comprehensive study on MS Word, MS Excel and other components of the package. This book is packed with expert advice from eminent IT professionals, in-depth analyses and practical examples. It presents a detailed functioning of hardware components besides covering the software concepts. A broad overview of Computer architecture, Data representation in the computer, Operating systems, Database management systems, Programming languages, etc., has also been included. An additional chapter on Mobile Computing and other state-of-the-art innovations in the IT world have been incorporated. Not only that, the latest Internet technologies have also been covered in detail.One should use this book to acquire computer literacy in terms of how data is represented in a computer, how hardware devices are integrated to get the desired results, how the computer can be networked for interchanging data and establishing communication.Each chapter is followed by a number of review questions.

COMPUTER ORGANIZATION AND ARCHITECTURE PHI Learning Pvt. Ltd.

With the invention of computers and the advent of the Internet, mobile computing and e-Business applications, Information Technology (IT) has brought rapid progress in domestic and international business, and

a tremendous change in the lifestyle of people. This book provides the students not just the knowledge about the fundamentals of a computer system, like its organization, memory management and hardware devices, but also the software that run on it. The book then proceeds to describe operating systems, and the basics of programming concepts like procedure-oriented programming and object-oriented programming. Useful application software like MS Word, MS Excel and MS PowerPoint are described in great detail in separate chapters. A complete section has been devoted to the teaching of data communication, networking and Internet. The book ends with a detailed description of the business applications of computers. KEY FEATURES · Incorporates basics of IT along with developing skills for using various IT tools · Includes diagrams, pictures and screenshots · Provides key terms, review questions, practical exercises, group discussions, project activities and application-based case studies in each chapter · Follows the latest curriculum and guidelines for undergraduate and postgraduate courses of various universities, colleges and institutes

Computer Fundamentals Pearson Education India This Thoughtfully Organized Book Has Been Designed To Provide Its Readers With A Sound Foundation Of Computers And Information Technology. The Number Of Chapters, Chapter Topics, And The Contents Of Each Chapter Have Been Carefully Chosen To Introduce The Readers To All Important Concepts Through A Single Book. Each Chapter Addresses The Fundamental Concepts, Popular Technologies, And Current State-Of-The-Art Topics. Complete With Numerous Illustrations And Examples, Chapter Summaries, End-Of-Chapter Questions, And A Glossary Of Important Terms, Foundations Of Computing Is Designed To Serve As An Ideal Textbook For Various Courses Offered In Computer Science, Information Technology, And Other Related Areas. You Will Find Sufficient Coverage Of All Major Topics In The Field, Including Several New And Advanced Topics, Such As:Software Engineering,Object-Oriented Programming,Network, Distributed, And Real-Time Operating Systems,Unix, Windows, And Linux Operating Systems,Relational, Object-Oriented, And Multimedia Databases,Data Warehousing And Data Mining,Information Security In Computer Systems,Multimedia Computing Systems And Applications,Wireless Networks,The Internet,And Many More&..

Fortran 77 and Numerical Methods Harvard University Press

Productivity in work place in many professions now requires the know-how and application of computer skills. This entails basic computer knowledge, some general office productivity programs and in some cases advance and professional computer programs. It is therefore important that you acquire computer skills and have a competitive advantage over your colleagues.It is also good for students who are studying computer science in schools and colleges to have a practical knowledge of computer. In fact, the theories in you are constantly fed with will take no where if you do not also take out some time to acquire hands on computer skills. This Computer Fundamentals manual promises to make this adventure easy and interesting for you through its step by step procedures and illustrations.It is fully illustrated to make learning computer fun and interesting for all. It is a step by step guide that is very easy to understand.What You will Learn:* Introduction to Computer* Uses of Computer* Main Components of Computer* Input Devices* Output Devices* Storage Devices* Interfaces* Operating System (OS)* Color* Device Driver* Computer Configuration* Hardware and Software* Internet* Protecting a Computer* Computer Maintenance* Introduction to Microsoft Word* Introduction to Microsoft PowerPoint* Introduction to Microsoft Excel* Introduction to Apache OpenOffice* Introduction to CorelDRAW* Twitter* Facebook

Fundamentals of Computers John Wiley & Sons Learn the hand-crafted notes on C programming

Key Features Strengthens the foundations, as a detailed explanation of programming language concepts are given Lucid explanation of the concept Well thought-out, fully working programming examples End-of-chapter exercises that would help you practice the skills learned in the chapter Hand-crafted "KanNotes" at the end of the each chapter that would help the reader remember and revise the concepts covered in the chapter Focuses on how to think logically to solve a problem Description The new edition of this classic book has been thoroughly revamped, but remains faithful to the principles that have established it as a favourite amongst students, teachers and software professionals round the world. "Simplicity"- that has been the hallmark of this book in not only its previous sixteen English editions, but also in the Hindi, Gujrati, Japanese, Korean, Chinese and US editions. This book doesn't assume any programming background. It begins with the basics and steadily builds the pace so that the reader finds it easy to handle advanced topics towards the end of the book. What will you learn C Instructions Decision Control Instruction, Loop Control Instruction, Case Control Instruction Functions, Pointers, Recursion Data Types, The C Preprocessor Arrays, Strings Structures, Console Input/Output, File Input/Output Who this book is for Students, Programmers, researchers, and software developers who wish to learn the basics of C++ programming language.Table of Contents 1. Getting Started 2. C Instructions 3. Decision Control Instruction 4. More Complex Decision Making 5. Loop Control Instruction 6. More Complex Repetitions 7. Case Control Instruction 8. Functions 9. Pointers 10. Recursion 11. Data Types Revisited 12. The C Preprocessor 13. Arrays 14. Multidimensional Arrays 15. Strings 16. Handling Multiple Strings 17. Structures 18. Console Input/Output 19. File Input/Output 20. More Issues In Input/Output 21. Operations On Bits 22. Miscellaneous Features 23. Interview FAQs Appendix A- Compilation and Execution Appendix B- Precedence Table Appendix C- Chasing the Bugs Appendix D- ASCII Chart Periodic Tests I to IV, Course Tests I, II Index About the Authors Through his books and Quest Video Courses on C, C++, Java, Python, Data Structures, .NET, IoT, etc. Yashavant Kanetkar has created, molded and groomed lacs of IT careers in the last three decades. Yashavant's books and Quest videos have made a significant contribution in creating top-notch IT manpower in India and abroad. Yashavant's books are globally recognized and millions of students/professionals have benefitted from them. Yashavant's books have been translated into Hindi, Gujarati, Japanese, Korean and Chinese languages. Many of his books are published in India, USA, Japan, Singapore, Korea and China. Yashavant is a much sought after speaker in the IT field and has conducted seminars/workshops at TedEx, IITs, IIITs, NITs and global software companies. Yashavant has been honored with the prestigious "Distinguished Alumnus Award" by IIT Kanpur for his entrepreneurial, professional and academic excellence. This award was given to top 50 alumni of IIT Kanpur who have made a significant contribution towards their profession and betterment of society in the last 50 years. His Linkedin profile: linkedin.com/in/yashavant-kanetkar-9775255

Fundamentals of Computers Bpb Publications

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 dis-semination 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.

Computer Fundamentals "O'Reilly Media, Inc."

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.

Digital Electronics John Wiley & Sons

FUNDAMENTALS OF COMPUTERSPHI Learning Pvt. Ltd.

Computational Physics Info Kerala Communications Pvt Ltd

Introduces the fundamentals of BASIC, FORTRAN and C++ language using the concepts of Chemistry. This book includes an account of various statements input/output, format, control (if - then - else, go to, do loops and more has been illustrated by various examples.

Fundamentals of Computers Pearson Education India

The book " Computer Concepts and C Programming " is designed to help the Engineering students of all Indian Universities. This book is written as per the new syllabus of the Visveswaraiah Technological University, Belgaum, India and it satisfies all the requirements of I/II semester students who aspire to learn the fundamentals of computers and C Programming. C is a structured programming language. This is most popular and a very powerful programming language. It is standardized and portable across multiple operating systems. C has been the most sought after programming language for developing the system software such as device drivers, compilers, parts of operating systems, interpreters for languages like Java, Prolog, etc. Among other popular programming languages like C++, Java and C#, C retained its position in software development activities. This book provides more than 100 example programs. All these programs are executed and tested on Borland C++ compiler and with the vi editor on UNIX. All the laboratory assignments are provided in Appendix – A. There are 150 multiple choice questions given for the readers to test their knowledge of C language.

Mastering Algorithms with C PHI Learning Pvt. Ltd.

The verdant and beautiful Kerala, well known for its flora and fauna and for its rich tradition of temples, has today become one of the must see destinations in the world. Temples have always been an integral part of the culture and tradition of Kerala. This small state has become famous for its efforts to preserve the ancient culture of the big temples as well as the small family shrines, keeping their rich variety and tradition intact. These temples play an important role in spreading the greatness of Kerala in countries all over the world. Temples of Kerala have never been mere places of worship; they have played a pivotal role in the social, financial, cultural and educational fields of the state. For the rehabilitation of the poor and the deprived many schemes have been implemented by the temples like providing food and shelter to the needy. Today, if there is a great progress in the field of tourism, the temples have certainly contributed much to it. A large number of foreigners come to the state to study and understand Kerala ' s traditional temple arts like Kathakali, Chakiarkoothu, Ottamthullal etc. On the happy occasion of bringing out this book, we have endeavored to

include details of the prominent Ayyappan temples outside Kerala, along with those of the great temples within the state. The intention is to make this a comprehensive reference book for all well-known temples in India. May all our readers be blessed by the Almighty with peace, prosperity and good health.

Introduction to Computer Science, 2/e PHI Learning Pvt. Ltd.

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.

Foundations of Computing Excel Books India

Computer Fundamentals and Programming in C, with its abounding, extensive chapter-end questions and unique pedagogy, is structured to address the challenges faced by novices as well as amateur programmers. Assuming no prior knowledge of programming languages, the book presents the reader with a rich collection of solved examples and exercises.

Fundamentals of Computers **OUP India**

The book provides an overview of the basic concepts of informatics. Dealing with the concerns and issues of digital technology, the text has been written with the objective of introducing students with the tools and applications of information technology, highlighting its use by the digital society. It creates awareness on the nature of emerging digital knowledge society and social issues. Organized into six chapters, the book explains the fundamentals of informatics, besides sharing and analyzing the consequences of rapid computerization. Beginning with an overview of information technology explaining evolution of computers, computer classification, computer hardware and networking, the book moves to the Internet which is considered as a knowledge repository. It then explains IPR, copyright, patents and software license agreement. The book also highlights and discusses social informatics, e-Governance, applications of informatics in various subject areas and futuristic IT. The book is primarily intended as a text for undergraduate and postgraduate students of various disciplines wherein ‘ Informatics ’ is prescribed as a core or foundation course. The book will also be of immense use to general readers who are interested in knowing the applications of information technology. Key Features 1. Provides updated information as per the course curriculum of many universities. 2. Includes labeled and immaculate illustrations for clear understanding of the concepts. 3. Chapter-end review questions to reinforce to concepts understanding and to help students prepare for examinations. 4. Presents an extensive glossary of technical terms. Solution Manual is available for adopting faculty.

INTRODUCTION TO INFORMATION TECHNOLOGY Alpha Science Int'l Ltd.

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.

GROUNDBREAKING INVENTIONS IN INFORMATION AND COMMUNICATION TECHNOLOGY

Let Us C

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.