

several solved examples to illustrate the concepts. ? Contains exercises with answers for practice.

This book intends to inculcate the innovative ideas for the scheduling aspect in distributed computing systems. Although the models in this book have been designed for distributed systems, the same information is applicable for any type of system. The book will dramatically improve the design and management of the processes for industry professionals. It deals exclusively with the scheduling aspect, which finds little space in other distributed operating system books. Structured for a professional audience composed of researchers and practitioners in industry, this book is also suitable as a reference for graduate-level students.

Chapters: on heterogeneous GIS, architectures, spatial data models, transactions and database languages; database language SQL: emerging features for GIS applications; proposed spatial data handling extensions to SQL; a GIS perspective on spatial and object oriented extensions to SQL; conceptual folding and unfolding of spatial data for spatial queries. Illustrated.

This book, now in its Third Edition, is designed as a textbook for first-year undergraduate engineering students. It covers all the relevant and vital topics, lucidly and straightforwardly. This book emphasizes the basic concept of physics for engineering students. It covers the topics like properties of matter, acoustics, ultrasonics with their industrial and medical applications, quantum physics, lasers along with their industrial and medical applications, fibre optics with its uses in optical communication and fibre optic sensors, wave optics, crystal physics, and imperfection in solids. This book contains numerous solved problems, short and descriptive type questions and exercise problems. It will help students assess their progress and familiarize them with the types of questions set in examinations. NEW TO THIS EDITION • New chapters on 1. Wave Motion 2. Imperfection in solids • New sections on 1. Inadequacy of classical mechanics 2. Heisenberg's uncertainty principle 3. Principles of superposition of matter waves 4. Wave packets 5. Three-dimensional potential well problem 6. Photonic pressure sensor 7. Noise and their remedies TARGET AUDIENCE B.E./B.Tech (all branches of engineering)

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.

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.

ISSRE 92, held in Research Triangle Park, N.C., October 1992, focused on the transfer of software reliability engineering research and best practice to the software development and management processes. Theory papers represent current research trends in software engineering models and methods. Appli

This book is designed to provide a solid introduction to the basics of C programming, and demonstrate C's power and flexibility in writing compact and efficient programs not only for information processing but also for high-level computations. It is an ideal text for the students of Computer Applications (BCA/MCA), Computer Science (B.Sc./M.Sc.), Computer Science and Engineering (B.E./B.Tech), Information Technology (B.E./B.Tech.) as well as for the students pursuing courses in other engineering disciplines, both at the degree and diploma levels, possessing little or no programming experience. The book presents a comprehensive treatment of the language, highlighting its key features and illustrating effective programming techniques by examples. The basic programming concepts such as data types, input and output statements, looping statements, etc. are clearly explained in a simplified manner. The advanced techniques such as functions, pointers and files are discussed thoroughly. One of the key topics, Data Structures, is explained in detail with diagrammatic representations and well-written programs. The linked list, the heart of the data structure part, is very well illustrated. The final part of the book contains a collection of solved programs to reinforce the understanding of the concepts of the C language.

The complete spectrum of computing fundamentals starting from abc of computer to internet usage has been well covered in simple and readers loving style, The language used in the book is lucid, is easy to understand, and facilitates easy grasping of concepts, The chapter have been logically arranged in sequence, The book is written in a reader-friendly manner both the students and the teachers, Most of the contents presented in the book are in the form of bullets, organized sequentially. This form of presentation, rather than in a paragraph form, facilitates the reader to view, understand and remember the points better, The explanation is supported by diagrams, pictures and images wherever required, Sufficient exercises have been included for practice in addition to the solved examples in every chapter related to C programming, Concepts of pointers, structures, Union and file management have been extensively detailed to help advance learners, Adequate exercises have been given at the end of the every chapter, Pedagogy followed for sequencing

the contents on C programming supported by adequate programming examples is likely to help the reader to become proficient very soon, 200 problems on C programming & their solutions, 250 Additional descriptive questions on C programming.

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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 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.

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This book is primarily intended for the first year B.Tech students of all branches for their course on engineering chemistry. The main objective of this book is to provide a broad understanding of the chemical concepts, theories and principles of Engineering Chemistry in a clear and concise manner, so that even an average student can grasp the intricacies of the subject. It includes the general concepts of structure and bonding, phase rule, solid state, reaction kinetics and catalysis, electrochemistry, chemical thermodynamics and free energy. Besides, the book introduces topics of applied chemistry like water technology, polymer chemistry and nanotechnology. Each theoretical concept is well supported by illustrative examples. The book also provides a large number of solved problems and illustrations to reinforce the theoretical understanding of concepts. KEY FEATURES (i) Each chapter of the book provides a clear and easy understanding of the definitions, theories and principles. (ii) A large number of well-labelled diagrams help to understand the concepts easily and clearly. (iii) Chapter-wise glossary and important mathematical relations are given for quick revision. (iv) Provides multiple choice questions with answers, short questions and long questions for practice.a

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.

The Book Is Written For Post-Graduate Students Preparing For Ugc-Net, Set Examination. It Contains Multiple Choice Objective Type Questions, Covering Different Aspects Of Library And Information Science. The Questions In This Book Cover Both Traditional Librarianship As Well As Modern Aspects Such As Information And Information Science, Library Automation, Computers And Information Technology Etc. At The End Of Each Chapter Solutions Have Been Provided. The Book Shall Be Found Useful For Those Who Are Appearing To Get Admission To M.L.I.S. Or M.Phil. Courses, Or Appearing For Staff Selection Commission Or Other Recruitment Tests.

This book constitutes the thoroughly refereed post-proceedings of the 8th International Workshop on Database Programming Languages, DBPL 2001, held in Frascati, Italy, in September 2001. The 18 revised full papers presented together with an invited paper were carefully selected during two rounds of reviewing and revision. The papers are organized in topical sections on semistructured data; OLAP and data mining; systems, schema integration, and index concurrency; XML; spatial databases; user languages; and rules.

