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***Fortran Is The Pioneer
Computer Language
Originally Designed To***

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***Suit Numerical, Scientific
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Computations. In Spite Of
The Birth Of Several
Computer Languages,
Fortran Is Still Used As A
Primary Tool For***

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***Programming Numerical
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***Illustrations. Programs
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Systematic Way For All
The Classical Problems.
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***Been Presented In A
Simple Style And
Algorithms Developed.
Complete Fortran 77
Programs And More Than
One Sets Of Sample Data
Have Been Given For***

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Fifteen groundbreaking inventions: Fortran, Integrated Circuits, Relational Database Management Systems, Local Area Networks, Personal Computers,

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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

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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

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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

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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

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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

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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

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has become prominent. For example, they enable one to find the roots of transcendental equations and in solving nonlinear differential equations. Indeed, they give the solution when ordinary analytical

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Loop Control Instruction, Case
Control Instruction Functions,
Pointers, Recursion Data Types,
The C Preprocessor Arrays,
Strings Structures, Console
Input/Output, File Input/Output*

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*Who this book is for Students,
Programmers, researchers, and
software developers who wish
to learn the basics of C++
programming language.*

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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

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with answers and solutions to interview questions are given at the end of the book. The book is eminently suitable for students of Computer Science, Computer Applications, and Information Technology at both

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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

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The authors provide clear examples

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and thorough explanations of every feature in the C language. They teach C vis-a-vis the UNIX operating system. A reference and tutorial to the C programming language. Annotation copyrighted by Book News, Inc., Portland, OR

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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

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space complexity of algorithms.
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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

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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

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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,

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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.

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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.

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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

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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

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77.

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on to concepts such as working with data, decision making, persistent data storage and implementing mathematical operations. Apart from programming, the book also discusses version control systems and open

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ways of programming. This book is intended for all those who are interested to learn/sharpen their programming skills. Companion Website The website for this book (www.phindia.com/saha) is an

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rudiments of programming, Programming Techniques through C: A Beginner's Companion teaches you the techniques of solving problems from simpler

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ones like finding out the area of a triangle to more involved ones like sorting and searching . The visual approach to solve problems in a step-by-

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problem solving
procedures rather than
learning a language."

The object oriented
approach has come as a
paradigm for local and
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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

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easily by practice with a
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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

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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

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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

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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

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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

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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

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principles • Explains acquisition, compression, storage, organization, processing and dissemination of multimedia data • Simple explanation of mp3, jpg, and mpeg4 compression • Explains how computer networks

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which will be essential to the complete beginner who wants to learn the fundamentals of programming using a modern, powerful and expressive language; as well as those wanting to update their

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programming skills by making the move from earlier versions of Fortran.

This is a revised and enlarged version of the author's book which received wide acclamations in its earlier three

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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

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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

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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

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consolidates these features.

Fortran 90 is introduced in a new chapter which summarises all its features.

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