

## E Balaguruswami Basic Computer Engineering

This book discusses the fundamentals of the various hardware and software components of computers. It follows an illustrative and easy-to-learn approach with a unique combination of theory and practice.

Modern society depends heavily upon a host of systems of varying complexity to perform the services required. The importance of reliability assumes new dimensions, primarily because of the higher cost of these highly complex machines required by mankind and the implication of their failure. This is why all industrial organizations wish to equip their scientists, engineers, managers and administrators with a knowledge of reliability concepts and applications. Based on the author's 20 years experience as reliability educator, researcher and consultant, Reliability Engineering introduces the reader systematically to reliability evaluation, prediction, allocation and optimization. It also covers further topics, such as maintainability and availability, software reliability, economics of reliability, reliability management, reliability testing, etc. A reliability study of some typical systems has been included to introduce the reader to the practical aspects. The book is intended for graduate students of engineering schools and also professional engineers, managers and reliability administrators as it has a wide coverage of reliability concepts.

This is a hands-on reference that will help students to attain fluency in Word Processing, electronic accounting in Spreadsheet and programming with C in the shortest possible time. It includes all the fundamental computing processes concisely, to specifically address the needs of engineering and diploma students in the early semesters.

Written by one of the pioneers of computer education in India, this text is designed for first-year engineering students of Rajiv Gandhi Pradyogiki Vishwavidyalaya (RGPV). It is written in-sync with the syllabus, common to all engineering branches. Covering the Fundamentals of Computers and Programming in C++, this text presents the concepts in easy-to-understand language.

This book presents a detailed exposition of C in an extremely simple style. The various features of the language have been systematically discussed. The entire text has been reviewed and revised incorporating the feedback from the readers. Each chapter has been expanded to include a variety of solved examples and practice problems.

From the author of Marketing to Win comes this compelling argument for focusing on integrity to dramatically improve long-term corporate and individual performance. Filled with proven management practices, this practical, values-driven approach is a blueprint for winning the marketplace. Illustrated.

“Programming Concepts in C, DS, C++, Java” book covers all major concepts in different programming languages individually.

Written by one of the pioneers of computer education in India, this text is

designed for the first-year engineering and MCA students of UPTU. It offers complete coverage of UPTU syllabus in easy-to-understand language.

Written by the most well known face of India's IT literacy movement, this book is designed for the first course in C taken by undergraduate students in Computers and Information Technology. The revised edition maintains the lucid flow and continuity which has been the strength of the book.

It's not just test tubes and Bunsen burners anymore. Computers now rank at or near the top of the list of a chemist's most indispensable tools, and it's safe to say that no chemistry student will get very far without a good working knowledge of computers and the concepts of computer programming. Designed specifically to ensure undergraduate chemistry students have this basic proficiency, *Computers and Their Applications to Chemistry* introduces the fundamentals of computers, then builds a solid foundation in programming using the BASIC programming language and simple examples from chemistry. The author's straightforward approach moves smoothly from simple to complex ideas, from elementary input/output statements through data string manipulation and searching methods to graphics and numerical methods. The last two chapters discuss a variety of available software packages particularly useful in chemistry. Each chapter includes a number of solved examples followed by a set of review questions that reinforce and stimulate interest in the ideas presented.

New methodological aspects related to design and implementation of symbolic computation systems are considered in this volume aiming at integrating such aspects into a homogeneous software environment for scientific computation. The proposed methodology is based on a combination of different techniques: algebraic specification through modular approach and completion algorithms, approximated and exact algebraic computing methods, object-oriented programming paradigm, automated theorem proving through methods à la Hilbert and methods of natural deduction. In particular the proposed treatment of mathematical objects, via techniques for method abstraction, structures classification, and exact representation, the programming methodology which supports the design and implementation issues, and reasoning capabilities supported by the whole framework are described.

The book presents all aspects of the language in a step-by-step framework in the increasing order of difficulty. Each major idea is followed by do it yourself exercise designed to test the understanding of the reader. This book would be an ideal text for

The book is designed to help the first year engineering students in building their concepts in the course on Programming for Problem Solving. It introduces the subject in a simple and lucid manner for a better understanding. It adopts a student friendly approach to the subject matter with many solved examples and unsolved questions, illustrations and well-structured C programs.

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Programming with Java, 4e, gives an excellent account of the fundamentals of

Java Programming. The language concepts are aptly explained in simple and easy-to-understand style, supported with examples, illustrations and programming and debugging exercises.

Personal Computers Have Become An Essential Part Of The Physics Curricula And Is Becoming An Increasingly Important Tool In The Training Of Students. The Present Book Is An Effort To Provide A Quality And Classroom Tested Resource Material. Salient Features \* Topics Have Been Carefully Selected To Give A Flavour Of Computational Techniques In The Context Of A Wide Range Of Physics Problems. \* Style Of Presentation Emphasis The Pedagogic Approach, Assuming No Previous Knowledge Of Either Programming In High-Level Language Or Numerical Techniques. \* Profusely Illustrated With Diagrams, Graphic Outputs, Programming Hints, Algorithms And Source Codes. \* Ideally Suited For Self-Study With A Pc On Desktop. \* Accompanied With A Cd Rom With Source Codes Of Selected Problems Saving The User From Typing In The Source Code. \* Can Be Adopted As A Two-Semester Course In Universities Running Courses Such As Computer Applications In Physics, Numerical Methods In Physics Or As An Additional Optional Paper In Nodal Centres Of Computer Applications Provided By Ugc In Different Universities. \* Meets The Requirements Of Students Of Physics At Undergraduate And Post-Graduate Level In Particular And Physical Sciences, Engineering And Mathematics Students In General. This Book Is An Outcome Of A Book Project Granted By University Grants Commission New Delhi (India).

This book is designed for students of West Bengal Technical University taking the first semester (CS201) paper on Introduction to Computing. This paper is common to all branches of Engineering.

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The Performance of a system depends directly on the time required to perform an operation and number of these operations that can be performed concurrently. High performance computing systems can be designed using parallel processing. The effectiveness of these parallel systems rests primarily on the communication network linking processors and memory modules. Hence, an interconnection network that provides the desired connectivity and performance at minimum cost is required for communication in parallel processing systems. Multistage interconnection networks provide a compromise between shared bus and crossbar networks.

Dependability and cost effectiveness are primarily seen as instruments for conducting international trade in the free market environment. These factors cannot be considered in isolation of each other. This handbook considers all aspects of performability engineering. The book provides a holistic view of the entire life cycle of activities of the product, along with the associated cost of environmental preservation at each stage, while maximizing the performance.

IT industry offers lucrative job opportunities not only for the IT graduates but also for all those non-IT background students who thrive to build their career in this field. This book, now in its second edition, appraises the reader with every minute detail of the IT concepts and serves as a self-help guide for the graduates and students appearing for their placement tests and interviews in the final year. The book begins with the details of recruitment process and focuses on tackling difficult HR interview questions, resume building tips and provides sample resume which will equip the students for the interviews and hone their overall personality. The testimonials by the industry experts and academicians succinctly tell about the expectations of industry employers from the new recruits. The text in the middle chapters elaborates the programming concepts of C, C++ and Java

as well as the concepts related to database, software engineering, operating systems, networking and DOT NET in great detail. The last chapter of the book presents a number of topics relating to general computer science aptitude. NEW TO THE SECOND EDITION • Numerous sections and examples have been included in chapters on OOP Concepts—Classes and Objects, Inheritance in C++, Polymorphism, Exception Handling and Templates in C++ and Operating System Concepts. • Completely revamped text in the chapter on Database Concepts. • Several MCQs from the latest interviews have now been incorporated into the respective chapters. • Five sample test papers with solutions are provided for practice. KEY FEATURES • Includes questions gathered from the interviews conducted by companies such as Virtusa, TCS, IBM, DELL, HCL, Aon Hewitt, Convergys, CSC and Wipro. • Serves as a complete guide containing basic programming concepts helpful for non-IT background students as well. REVIEWER'S COMMENT It was a dream come true for me when I got placed in CISCO SYSTEMS with a package of 10.7 lakhs. I am immensely thankful to Ela Kashyap for writing such an amazing book. It has all the requisite information required to crack any interview, as it succinctly covers all the important topics one needs to know for IT interviews. The book has helped me to crack five rounds of interview. So, I would like to recommend this book to all the engineering students.

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