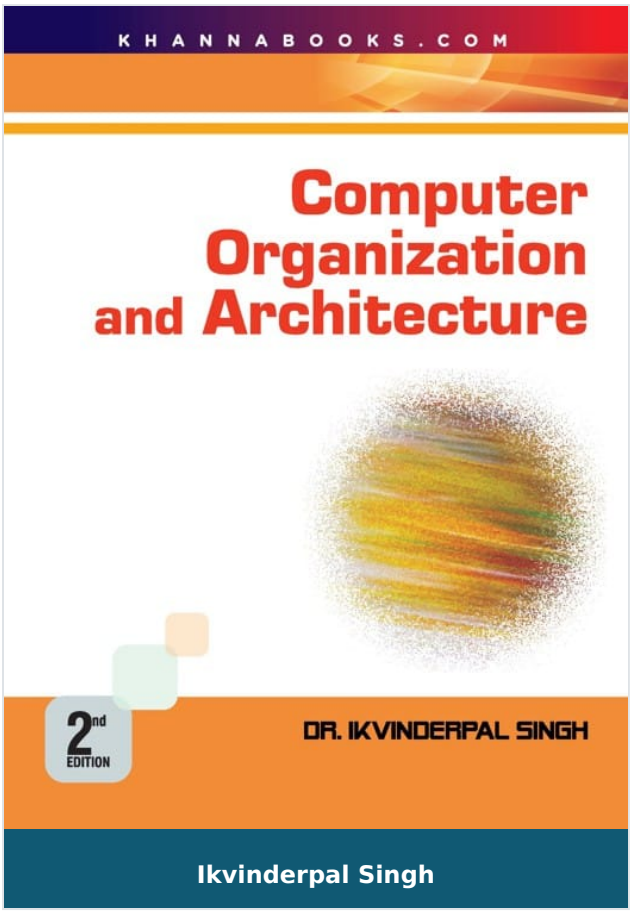


Computer Organization and Architecture

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Product Description

The title of our book, computer organization and architecture, is intended to convey that the topics presented in the text are those for which every Computer science major should have exposure, familiarity, or mastery. We do not expect students using our textbook to have complete mastery of all topics presented. it is our firm belief, however that there the certain topics that must be mastered; there are those topics for which students must have a definite familiarity; and there are certain topics for which a brief introduction and exposure are adequate. We feel our explanations, examples and exercises all combine to provide the student with a total learning experience that exposes the inner workings of a modern digital computer at the appropriate level. Like most books, we have chosen an architectural model, but it is one that we have designed with simplicity in mind.

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- Digital Logic Basics
- Combinational Circuits
- Sequential Circuits
- Number System and Codes
- Register Transfer Language
- Computer Organization and design
- Assembly Language
- Control Unit
- Central Processing Unit
- Central Processing Unit
- Pipeline and Vector Processing
- Input-Output Organization
- Memory System Design
- Introduction to Multiprocessors

Author

Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development

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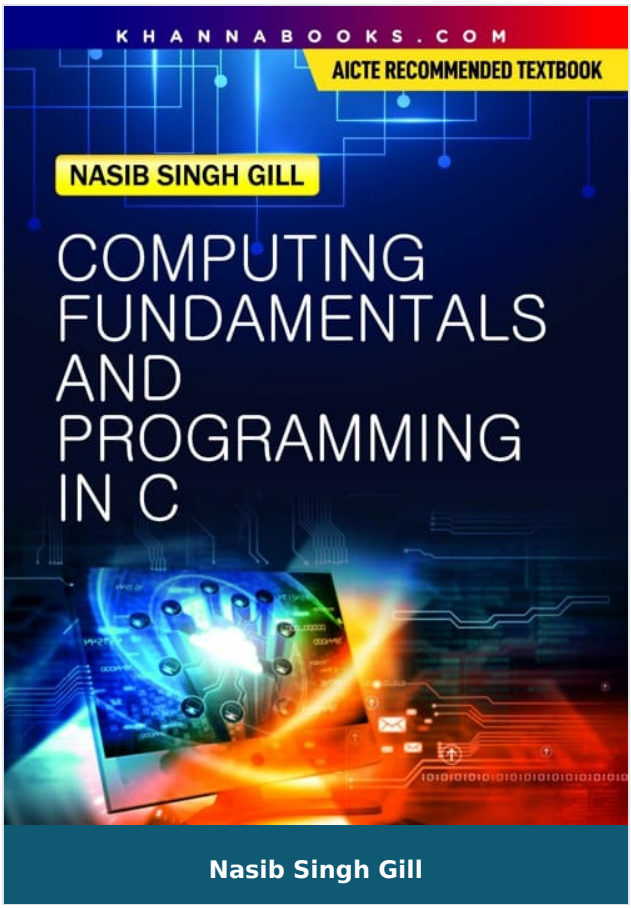
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Computing Fundamentals and Programming in C

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Product Description

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 facilities 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, facilities 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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Table Of Contents

- History of Computing
- Basic Elements of Computers and Applications
- Number Systems and Data Representation
- Computer Codes
- Input and Output Devices
- Computer Memory and Secondary Storage
- Data Communication, Computer Networks and Internet
- Basic Concepts of Software and Its Types
- Evolution of Programming Languages and Program Development
- Overview of C Language
- Variables, Constants and Data Types
- Operator Types in C and Expressions
- Decision Making Iterative and Control Constructs In C
- User Defined Functions
- Arrays Overview and Its Types
- Pointers and Applications
- Structures and Union
- File Management in C
- Problems & Solutions on C Programming
- Additional Descriptive Questions on C
- References
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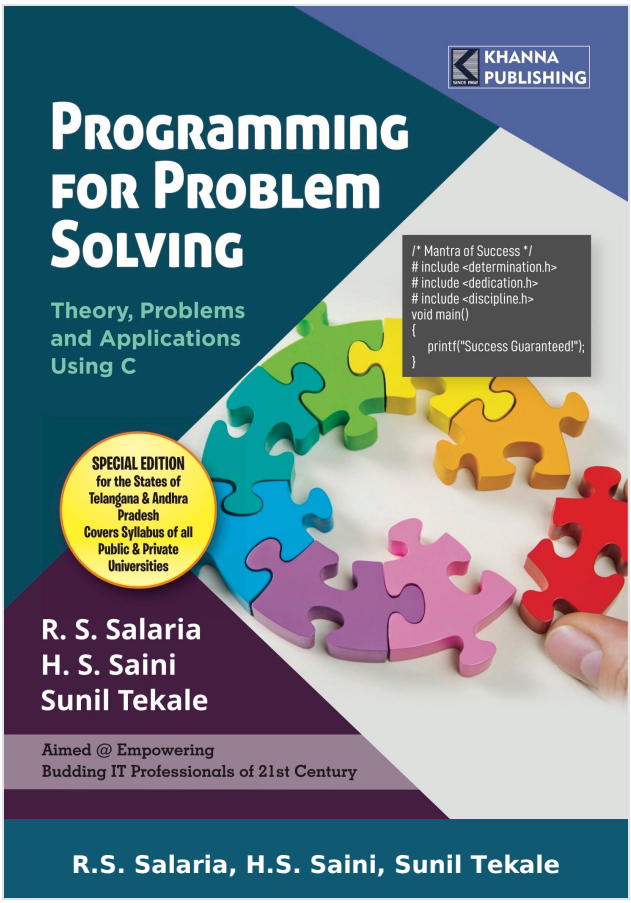
Nasib Singh Gill

Dr. Nasib Singh Gill is a high profile and an acknowledge teacher. Dr. Gill obtained his Ph.D. degree in Computer Science in March 1996 under the supervision of a very renowned and an eminent Computer Scientist, Pro-Head, Department of Computer Science & Applications, M.D. University, Rohatak. He is working in Department of Computer Science & Applications, M.D. University, Rohtak since its inception in Feb. 1990. Presently, he is working as Senior Faculty in the department and has more than 10.5 years of teaching experience. His area of research is 'Software Metrics', a sub-area of 'Software engineering' discipline and presently he is orienting himself in the area of 'Information Technology'

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Programming for Problem Solving

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Product Description

This book is specially conceived with an aim to serve not only as a textbook to cover the syllabus of public & public universities, rather a intelligent book (i-book) that empowers readers to acquire 21st century problem solving skills and sharp coding skills.

Therefore, keeping in mind the requirements of 21st Century, a special emphasis is laid on the following aspects:

Designed keeping in mind the objectives of OUTCOME BASED EDUCTION.

Simple and lucid language that language that enables even an average reader to grasp the fundamental concepts of the subject.

Illustrative examples (165+ in number) ti demonstrate the application of the concepts.

Multiple Choice questions (225+ in number) to provide an opportunity for self-assessment of the fundamental concepts learned.

Short-answer type questions (192+ in number) to provide an opportunity to synthesize the fundamental concepts learned to answer precisely.

Programming exercises (112+ in number) to provide an opportunity to harness their coding skills.

Coding problems (42+ in number) from the IT/IT-enabled industry perspective to conquer the screening phase of the placement process.

Frequently asked questions (43 in number) to conquer the technical round of the CAMPUS PLACEMENT PROCESS with flying colors.

The whole content is designed and organized as per the BLOOM'S TAXONOMY.

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Table Of Contents

- Coding/Programming Problems for Campus Placements
- Introduction to Computers
- Program Solving and Program
- Overview of C Language
- Data Types, Variables and Constants
- Operator and Expressions
- Console Input/Output
- Decision Making and Branching
- Decision Making and Looping
- User-Defined Functions
- Arrays and Strings
- User-Defined Data Types: Structure, Union & Enumeration
- Pointers & Dynamic Memory Management
- File Handling
- Preprocessor Directives
- Introduction to Algorithms
- Appendix A : Answers of MCQs
- Appendix B : FAQs for Oral Examination
- Appendix C: Solution of Selected Programming Exercises

Author

R.S. Salaria

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Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

H.S. Saini

Prof. H.S. Saini Professor, Computer Science & Engineering Managing Director, Guru Nanak Group of Institutes, Hyderabad Taught at University of Westminster and Oxford Brookes University, UK Founder and Chief Editor of Journal of Innovation in CS/ECE/IT Recipient of Eminent Academia Award from Indus Foundation Mentored half a dozen startups in the state of Telangana Key member on the panel of NBA & NAAC expert committees Expert in the field of Fuzzy Systems, AI, Knowledge Based Systems and Web Technologies Established Industry-Academia Collaborations, Foreign University Collaborations and Centers of Excellence in Cutting Edge Technologies

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C, C++, JAVA & J2EE Interview Questions (with ready Answers)

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Product Description

This book in intended to serve as an interview book for the students professionals who intend to attend interview calls on Java platform. Students/Professionals who are getting ready for campus interview or a programmer in search for a better opportunity at any level, this is the one-step-reference for preparing for IT interview. This main aim of this book is to giving various interview related topics like C, C++ core java Adv. Java, J2EE and XML. This book is and excellent preparation kit to crack the IT Interview.

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- Exception Handling
- Multithreading
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- Iostream
- Abstract Windows Toolkit (AWT)
- Event Handling
- Java Swing
- Java Applet
- Collection Framework
- Java Database Connectivity (JDBC)
- Java Networking
- Remote Method Invocation (RMI)
- Unified Modelling Language (UML)
- J2EE & XML

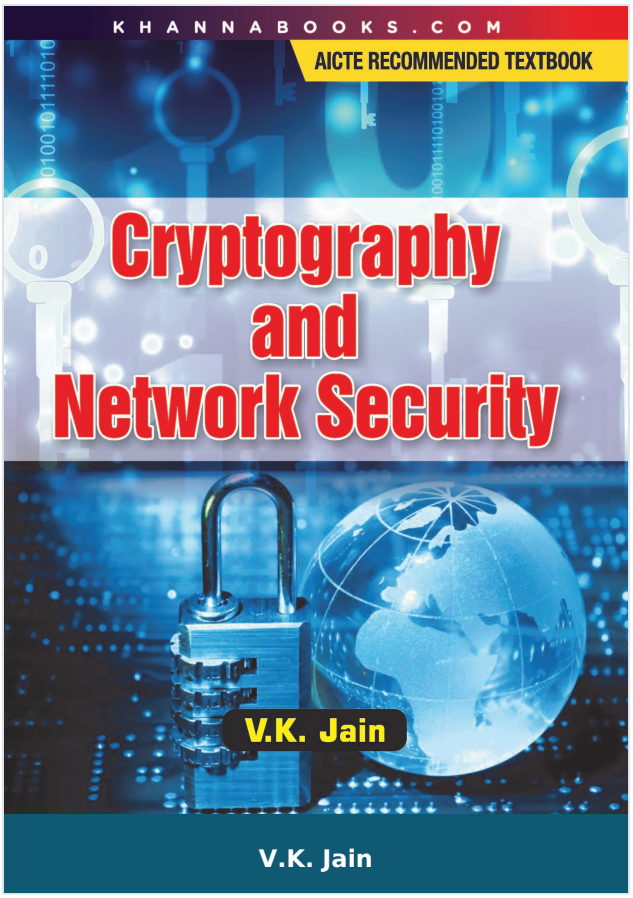
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Cryptography and Network Security

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Product Description

This book has been written keeping in mind syllabi of all Indian universities and optimized the contents of the book accordingly. These students are the book's primary audience. Cryptographic concepts are explained using diagrams to illustrate component relationships and data flows. At every step aim is to examine the relationship between the security measures and the vulnerabilities they address. This will guide readers in safely applying cryptographic techniques. This book is also intended for people who know very little about cryptography but need to make technical decisions about cryptographic security. many people face this situation when they need to transmit business data safely over the Internet. This often includes people responsible for the data, like business analysts and managers. as well as those who must install and maintain the protections, like information systems administrators and managers. This book requires no prior knowledge of cryptography or related mathematics. Descriptions of low-level crypto mechanisms focus on presenting the concepts instead of the details. This book is intended as a reference book for professional cryptographers, presenting the techniques and algorithms of greatest interest of the current practitioner, along with the supporting motivation and background material. It also provides a comprehensive source from which to learn cryptography, serving both students and instructors. In addition, the rigorous treatment, breadth, and extensive bibliographic material should make it an important reference for research professionals. While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

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- Basic Concepts in Data Encryption
- Model Block Cipher
- Groups, Ring and Field
- Public Key Cryptosystem and RSA
- Authentication
- Digital Signatures
- Authentication Application
- IP Security
- Web Security
- System Security
- Index

Author

V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This

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was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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Programming in Python

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Product Description

This comprehensive textbook, The Complete Guide to Programming in Python, is a foundational resource designed to transform absolute beginners into proficient Python developers. The core theme of the book is simplicity meets versatility: Python's global popularity is rooted in its highly readable syntax and its powerful application across diverse fields like web development, data science, and automation.

The book's primary purpose is to deliver a systematic, hands-on learning experience. It begins by establishing the fundamentals—such as the easy-to-understand syntax, diverse expression types, and key data structures like Numeric, Sequence (Lists, Tuples), and Mapping (Dictionaries)—before seamlessly progressing to advanced topics. Readers will master essential control flow techniques, including conditional statements (if/elif/else, match-case) and iterative loops (for/while), and learn to structure complex code using Object-Oriented Programming (OOP) principles (Inheritance, Polymorphism). The practical value is reinforced by specialized units on handling errors through robust exception handling, interacting with the PyMongo database, and building visually appealing applications using Tkinter. The target audience includes students in computer science, newcomers to programming, and professionals from any domain who require a solid, application-focused grounding in one of the world's most demanded programming languages.

Salient Features:

• Foundational Syntax Mastery: An ideal starting point covering all of Python's core features, from its easy-to-understand syntax and diverse expression types (Arithmetic, Logical) to detailed rules for operator precedence.

• Comprehensive Data Structures: A dedicated section that thoroughly explores all built-in data types: Numeric (int, float), Sequence (list, tuple, string), Mapping (dict), and Set

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types, complete with practical code implementations.

• Control Flow and Logic: Offers full coverage of flow control mechanisms, from basic if-else and nested conditions to the modern match-case statement, ensuring the ability to write robust program logic.

• Essential Built-in Functions: Provides an extensive, tabulated reference of over 50 vital built-in functions, each accompanied by practical code snippets demonstrating its correct usage and return value.

• OOP Principles Explained: Delivers clear, practical instruction on Object-Oriented Programming, covering Inheritance, Polymorphism (Overriding, Overloading), and Data Abstraction using Python-specific examples.

• Ecosystem and Libraries: Introduces the vast Python ecosystem, detailing how to create and use custom modules and presenting key external libraries like NumPy and Pandas for data manipulation.

• GUI Application Development: Step-by-step guidance on creating rich Graphical User Interfaces (GUIs) using the standard Tkinter library, thoroughly covering layout managers and all essential widgets.

• Practical Database Integration: Hands-on instruction for connecting to and performing full CRUD (Create, Read, Update, Delete) operations on a NoSQL database, specifically using the PyMongo library for MongoDB.

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Table Of Contents

- Introduction to python
- Operating on File
- GUI Programming
- Database and Networks

Author

K. Abinaya

K. Abinaya

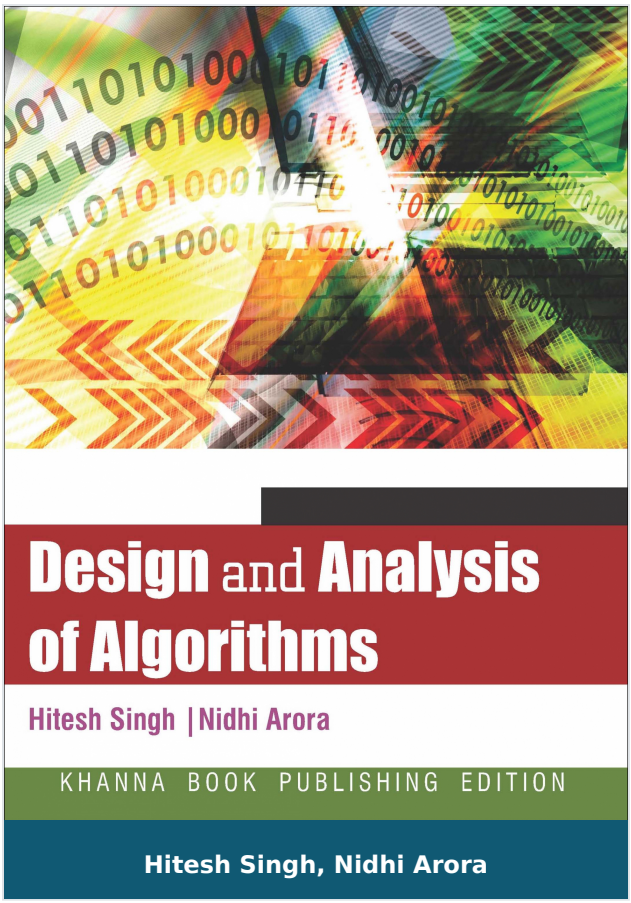
Saraswathi

Saraswathi Devi for given me the support and encouraging me to achieve goals successfully. I co-authored books on "Computer Fundamentals", Data Science with Machine Learning using R. Dr. K. L. Vasundhara, HOD & Assoc. Professor, Dept. of Mathematics, Thank my Mentor Prof. M. V. Ramana Murthy (Former Head and BOS Chairman, Dept. of Mathematics and Computer Science, OU, Hyderabad) for his guidance, time, ideas and help. I am greatly indebted to Sri Krishna Rao (Correspondent, Stanley College of Engineering and Technology for Women, Hyderabad) for his support. It is imperative on my behalf to remember my behold Mother Late Smt. K. Varalakshmi and my Father-in-Law Late Sri. Yerasuri Gopala Krishna Murthy for their divine blessings. Recipient of "UTTAMA ADYAPIKA AWARD" 2022, " JYSTA ACH ARNA AWARD" 2024 and authored 16 papers in various National & International Journals, Co- authored books on " Engineering Mathematics-IV", "Data Science with Machine Learning using R". AICTE nominated expert for Data Analytics and having 6 Patents. Prf.

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Design and Analysis of Algorithms

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Product Description

The focus of this book is on how to design good algorithms and how to analyze their efficiency. Various methods/ideas are explained with the help of examples which helps in developing fast and efficient algorithms. This book will also provide the correctness of algorithms and analyzing the algorithms. At the end of the chapters it chapters it has questions both solved and unsolved which has come in various Indian universities.

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Table Of Contents

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- Heap Sort
- Sorting In Linear Time
- Randomized Algorithm
- Elementary Data Structures
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- Red-Black Tree
- AVL Tree
- B-Tree
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- Backtracting
- Model Questions
- End-Term Examination

Author

Hitesh Singh

Hitesh Singh Hitesh Singh has done M.Tech from C-DAC, Noida, in CSE. His research area are information security, Steganography, Algorithms and Software Engineering.

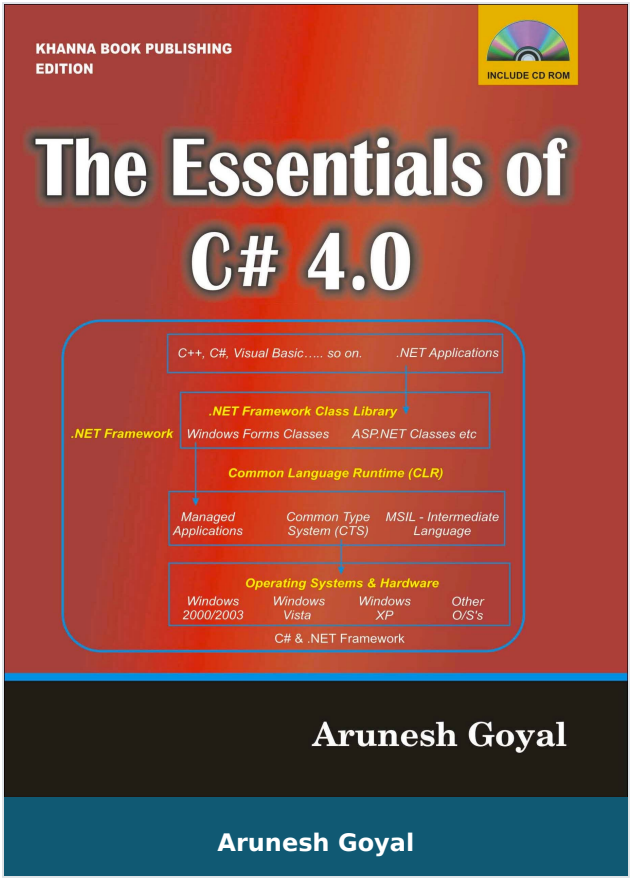
Nidhi Arora

Dr. Nidhi Arora is MBA, MCA and doctorate in Computer Science. She is an author of various books and also published research papers in reputed generals.

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The Essentials of C# 4.0

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Product Description

There are 10 case students in all pertaining to wide ranging topics. These will help you to see the practical side of applying C# in the real world and understand the theoretical subject matter of the text much better. Besides, there are more than 100 solved examples to help you out. The appendix carries a set of 35 typical problems which you will do will to your hand at in your one interest besides taking up the practical sessions affixed at the end of each chapter, In all these amount to 150 practical problems and exercises. we are confident that if you can solve all these problems on your one, you will be on your way to mastering C#. The glossary and the index section are for your ready reference. The glossary, in particular, has been designed so that you are able to understand much of the computer jargon associated with C# and the .NET environment in a big way.

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Table Of Contents

- Getting Started with C#
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- Operator Overloading
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- Inheritance / Polymorphism
- Interfaces, Structures and Enumerations
- Exception Handling
- I/O Strings and Formatting
- Appendix
- Glossary

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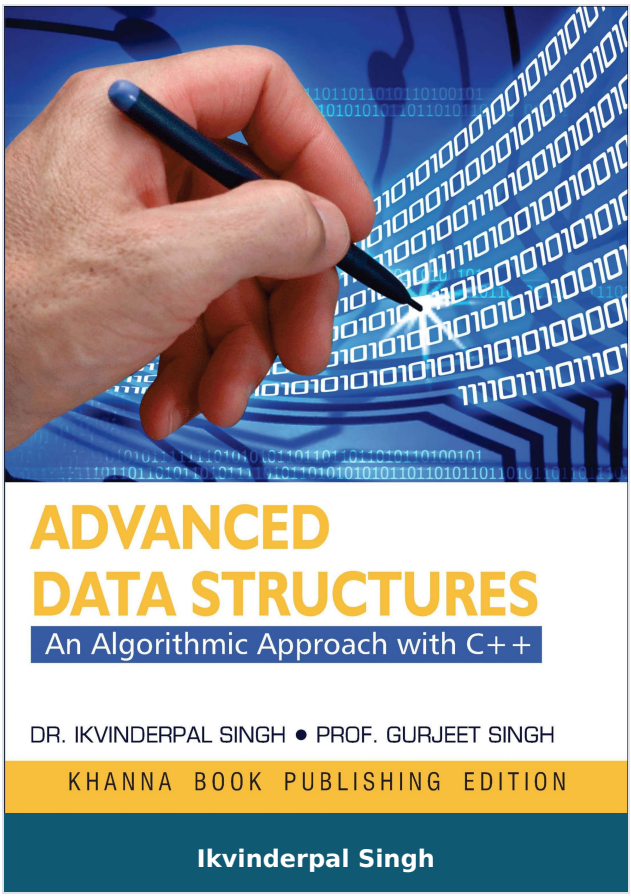
Arunesh Goyal

Arunesh Goyal is a topper from University of Delhi {B.Sc. (H) Mathematics: Kirorimal College. North Campus}. He has been personally awarded by Mr. Amitabh Bachchan. He is also a First Division MCA degree holder from the same university. Besides, he has worked as Computer Analyst/Consultant at St. Stephen's Hospital, Delhi for more than 10 years. This underlines his extensive programming and systems development experience. Besides, he has worked on two projects related to intelligent databases with Comtech International Ltd., Noida. and the Times of India, New Delhi, respectively.

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Advanced Data Structures

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Each chapter begins with an outline an overview, and a list of learning objective. Extensive coverage of data Structure basics, pictorial representation of each and every Data Structures in given in detail. Covers all tree structures like binary tree, binary search trees, AVL, B+-tree and red black trees in detail. Brief introduction to binary heaps, heap operations, specifications, implementation and applications is covered. Demonstration the development of algorithms is a lucid manner. Includes numbers illustrative examples to understand the topic easily. Demonstrates the implementation of algorithms in a good programming style. Diagrams are used extensively throughout the text. Contains numerous theory questions at the last of each chapter. Gives detailed description of advanced head structures, priority queue operations, and double ended priority queues in lucid manner. Includes the concepts like dictionaries, binomial heaps, Fibonacci heaps. Data structures for disjoint sets, tables and table operations. Gives detailed description of amortized analysis, starting matching, and graph algorithms. Detailed analysis of each and every sorting and searching technique is covered with the help of programming examples. Presents various external data structures-external storage, external files, external sorting searching indexing files, external hashing. Brief introduction to the concept of file and storage management.

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Table Of Contents

- Elementary Data Structures
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- Trees
- Binary Search Trees
- Red Black Trees
- B Trees
- AVL Trees
- Trees
- 3-4 Trees
- Heaps
- Advanced Heap Structures
- Dictionaries
- Binomial Heaps
- Fibonacci Heaps
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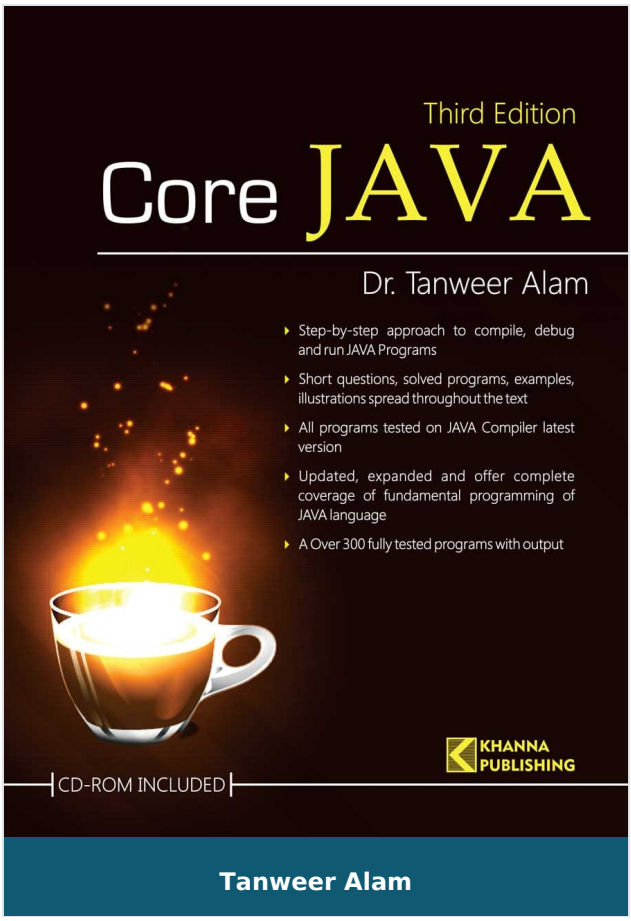
Ikvinderpal Singh

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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This book will be of great help to programmers who are already familiar with programming in C,C++ or VB. They can upgrade their skills through this book and achieve great height in the world of computer programming. Java definitely has a future in research and teaching, as well as system development. The objects of this book is to promote that future by spreading the use of the language as widely as possible. Java is a technology that allows software designed. Java allows you to play online games, chat with people around the world. It is also integral. to the intranet applications and other e-business solutions that are the foundation of corporate computing. The book is self contained. The chapters in this book are arranges in a sequence order. The programs presented in this book are to understand the application.

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- Introduction to Java
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- Multithreading
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- String Handling
- Applet Programming
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- Abstract Window Toolkit
- Event Handling
- Graphics Programming
- Swing in Java
- JDBC
- Core Java Lab Manual

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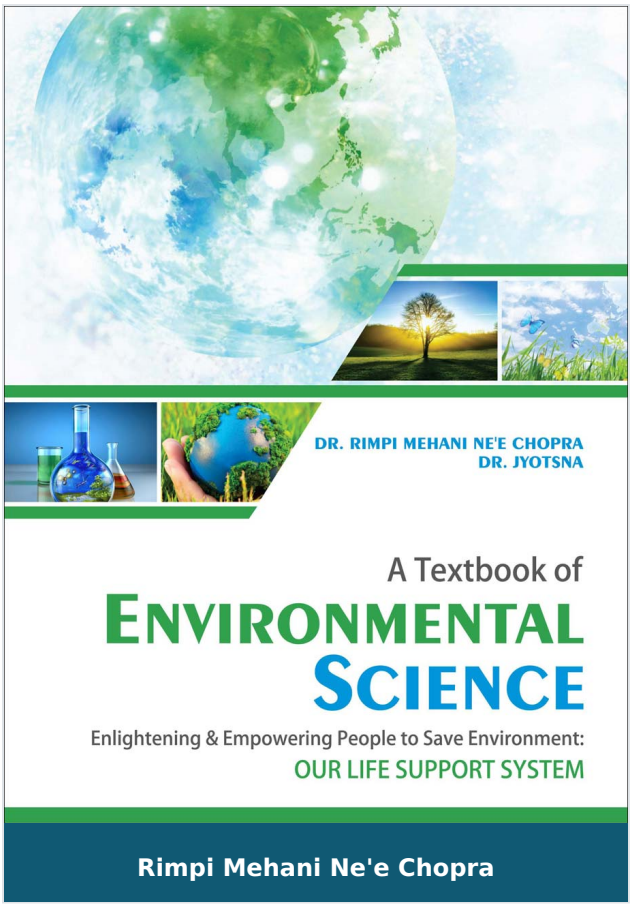
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A Textbook of Environmental Science

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Product Description

Our environment is a gift of good given to us. We are growing multifaceted in technology and engineering but at the cost of the air, water and land around us. We are not focusing on our needs but on our wants. India is our country but earth is the mother of all countries, its every problem is our real concern. We will need every citizen's help to answer to the very intense problem of the environment. Let us work at our own homes and save the environment.

All the universities and education boards are working for educating the masses on the issues related to the environment. all most everyone has covered all the alarming situations of the environment. The aim of writing this book was to gather the historical events and relate them to the present day situation the book is written according to the syllabus framed by the UGC for the course on Environmental Science to be studied by the undergraduate students of all Indian Universities. We have tried to touch the latest issues with the fresh available data.

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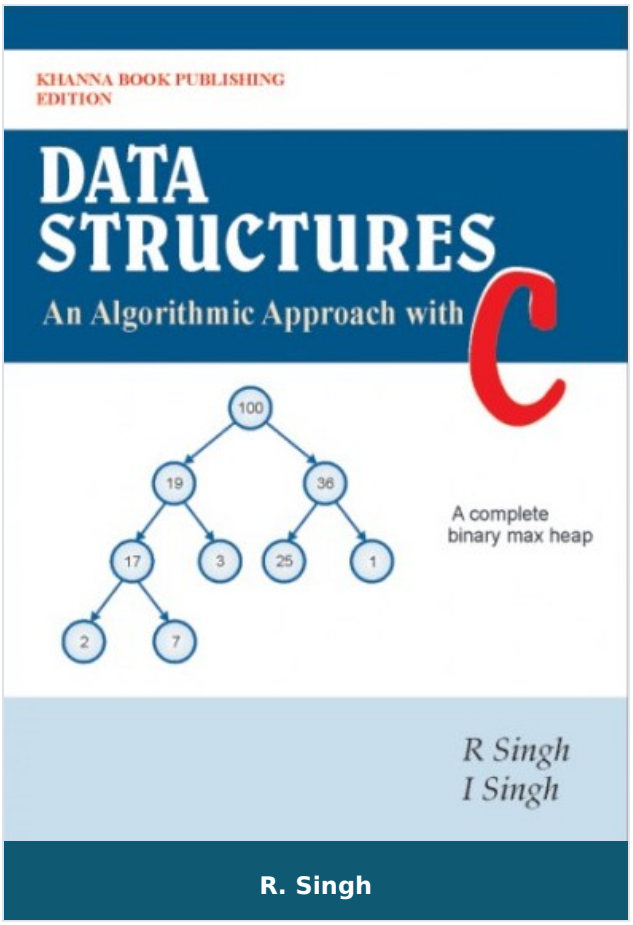
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Data Structures - An Algorithmic Approach with C

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Table Of Contents

- Introduction to C Language
- Introduction to Data Structures and String Processing
- Algorithm Design and Complexity
- Arrays, Pointers and Records
- Linked Lists
- Stacks
- Queues
- Trees
- Search Trees
- Heaps
- Graphs
- Sorting and Searching Techniques
- Hashing
- File and Storage Management

Author

R. Singh

R. Singh "R Singh, MCA is equipped with an extraordinary calibre and appreciable academic potency. He has teaching experience of nearly twenty years. He has authored ten books on various complex topics of computer science. He has already submitted his Ph.D. thesis in the field of system simulation. His other areas of interest include Software Engineering, Data Structures and Information Systems. "

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