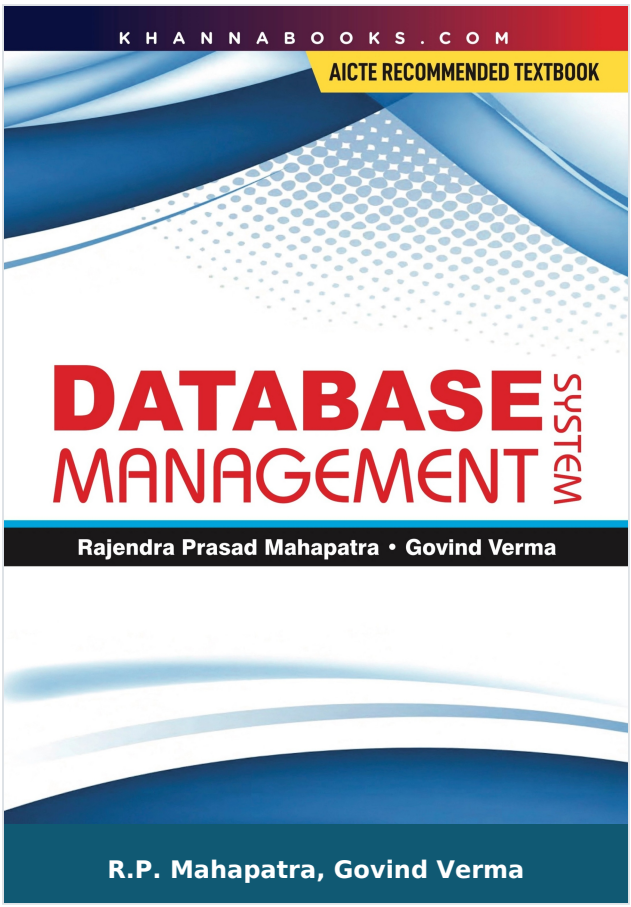


Database Management System

Author :	R.P. Mahapatra, Govind Verma
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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This book fundamental concepts necessary for designing, using and implementing database systems and applications. This book assumes no previous knowledge of database or database technology and the concepts are built from grounds-up basic concepts to advanced techniques and technologies. This is . The book is self- contained and has flexible organization to suit the needs of individual course.

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Table Of Contents

- Introduction
- Data Base Design and data Modeling
- Data Base Query Languages
- Database Storage & File Structure
- Database Implementation
- Type Of Databases
- Database Application

Author

R.P. Mahapatra

R.P. Mahapatra "Dr. Rajendra Prasad Mahapatra is BE(E.E), ME(CSE) he has 14 years of teaching experience in various positions at SRM Valliammai Engg. College, Chennai, Mekelle University, Ethiopia and SRM University NCR Campus Modinagar. He is presently HOD and Associate Dean of SRM UNIVERSITY NCR CAMPUS Modinagar. He has published 50 papers in lot of international journal and conferenece. He is a member of ISTE, IACSIT, IAENG, I.E(India). He has guided Masters Projects and presently five student pursuing Ph.D under his guidance. "

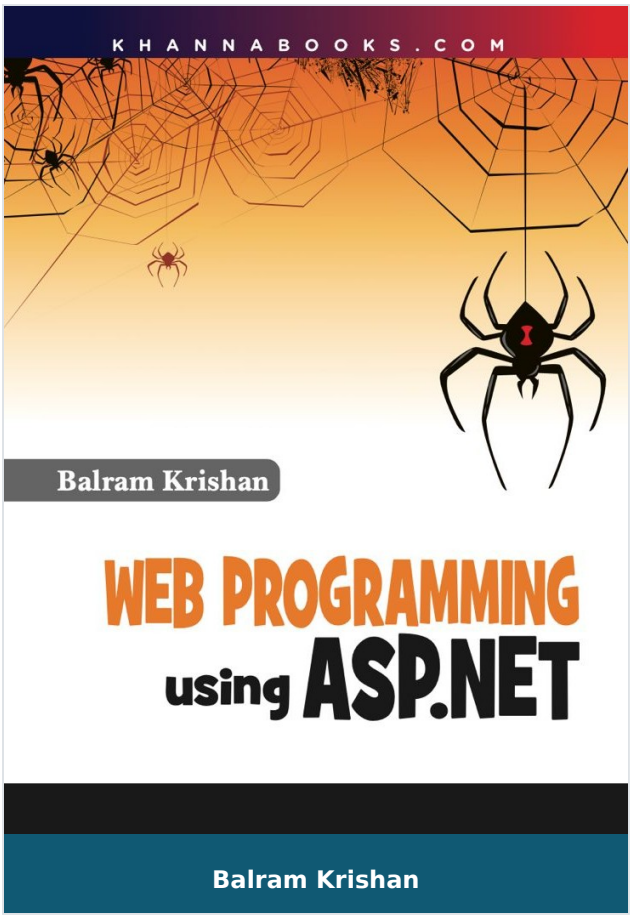
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Web Programming Using ASP.NET

Author :	Balram Krishan
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E-ISBN 13 :	978-93-81068-95-3
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Country Origin :	India

Product Description

Web Programming Using ASP.NET

This book is aimed to cater the needs of the Students who wish to create both Static and Dynamic Web Application using ASP.NET and to provide the students' community a book which explains and implements the complex concepts in a simple manner. Knowledge of any previous language like ASP is not a requirement to study this book. In this book, the complete Source Code with Output Screens of the ASP.NET Controls Demo is available, so that students can understand the practical aspect of the subject.

Salient Features:

- Simple and easy to understand language.
- Comprehensive Technical Coverage of concepts.
- Introduction to advanced additional topics (which are not in the syllabus).
- Sample Papers from University Exams.
- Objective Type Questions with answers key.
- ASP.NET Demo Programs with complete code demonstrating the various concepts and controls of ASP.NET with C#.NET and VB.NET code.
- Examples code in both C#.NET and VB.NET.
- Online support for the students to solve the students' query regarding ASP.NET.

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Table Of Contents

- .NET Framework
- Microsoft ASP.NET
- ASP.NET Application User Interface
- State Management
- XML Web Services
- Creating User Interface
- Implementing Navigation for User Interface
- Storing and Retrieving Data with ADO.NET
- Security in ASP.NET
- Configuring, Tracing and Debugging Web Application
- Using Caching Page
- Directives in ASP.NET
- ASP.NET Controls Demo

Author

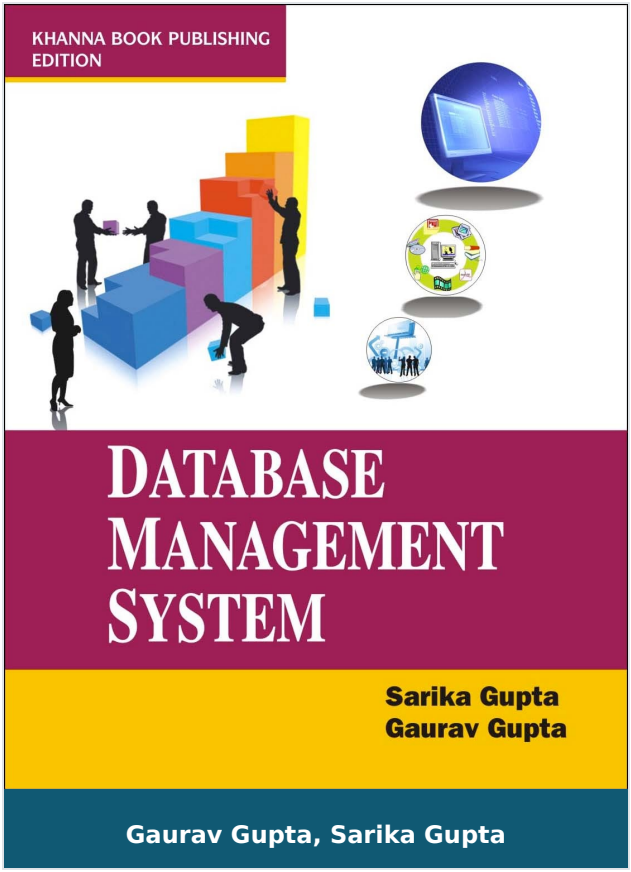
Balram Krishan

Balram Krishan MCA, M. Phil, is working as Assistant Professor, in Computer Science Department at Desh Bhagat Institute of Management and Computer Sciences, Mandi Gobindgarh, (Punjab). He has a total experience of 8 years in teaching. He has published more than 10 papers in International and National Journals. He is pursuing Ph. D. in Computer Science. His area of interest includes .NET and Cloud Computing.

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Database Management Systems

Author :	Gaurav Gupta, Sarika Gupta
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Product Description

This text book is designed to meet the requirements of the students of postgraduate and undergraduate engineering students of various branches. The book offers the concise coverage of the fundamentals of Database, Database Structures, data Modeling, ER Diagram, Introduction on SQL, Database Design, MySQL, Oracle and Distributed database etc. This book comprises of various realistic pictures in each of the chapter to give the real feel of the subject to the reader for better understanding.

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Table Of Contents

- Introduction to Basics of Database Management System
- Data Modeling Using the E-R Model
- Relational Data Model and Language
- Introduction to SQL
- Data Base Design and Normalization
- Transaction Management and Processing Concepts
- Serializability
- Concurrency Control Techniques
- Distributed Database Concepts
- Lab Guide
- Objective Type Questions of DBMS and PL/SQL
- Introduction to My SQL and Oracle
- Question Bank
- Model Papers
- Previous Year asked Questions with Solutions
- Previous Year Questions Papers
- Index

Author

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Gaurav Gupta is currently working as Manager Client Services in an IT MNC. He has more than Nine years of corporate experience with different MNCs. He has published Research Papers in various international Journals and attended conferences at several states. His area of interest includes Server and Databases, Data Center technologies and IT

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infrastructure, Project Management, Marketing Automation and different enterprise software's, CRM, ERP etc.

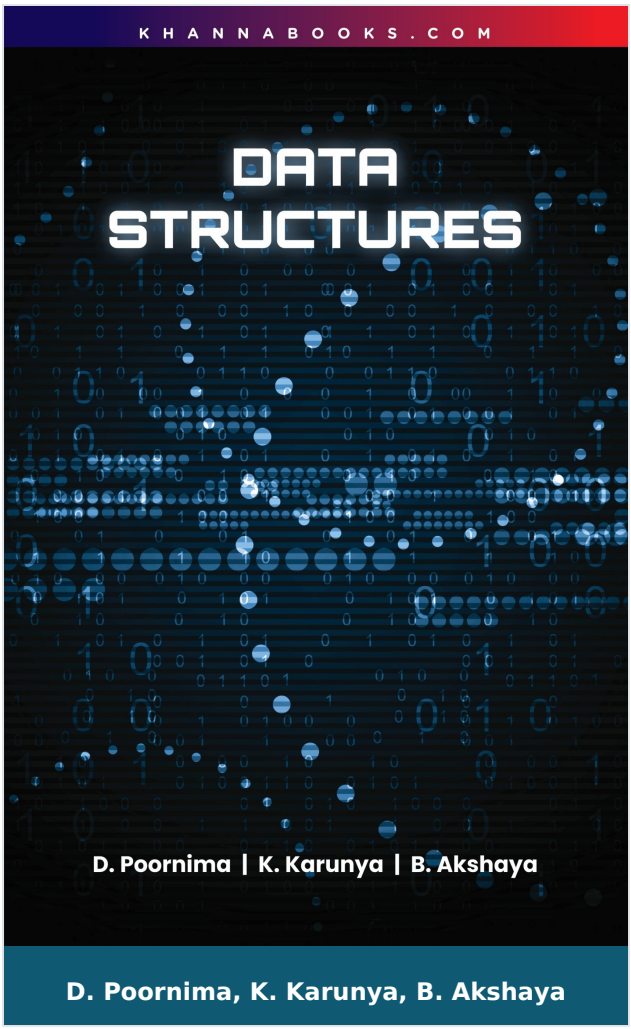
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Data Structures

Author :	D. Poornima, K. Karunya, B. Akshaya
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Product Description

This comprehensive textbook offers an indispensable foundation in data structures, the core discipline for efficient computing and algorithm design. It is explicitly designed to empower students, software developers, and computer science professionals with the ability to organize, manage, and process data optimally, thereby reducing computational overhead and enhancing application performance.

The book systematically guides readers through fundamental concepts, beginning with linear structures like Arrays, Linked Lists, Stacks, and Queues, and progresses to complex, non-linear structures such as Trees and Graphs. A strong emphasis is placed on the dual goals of reducing time complexity and optimizing memory storage, which are vital for developing modern, scalable software. Readers will gain practical proficiency through units dedicated to Search and Sorting Techniques and critical graph algorithms like Dijkstra's and Minimum Spanning Trees. By blending academic rigor with extensive real-world Case Studies and practical programming examples in C, this text ensures that learners not only understand how these structures work, but also why they are the backbone of modern applications in areas like databases, AI, and network optimization.

Salient Features:

• Fundamental Concepts: Provides a clear introduction to data structures, covering classifications (linear vs. non-linear) and the core need for optimizing both time and space complexity.

• Advanced Structures: Thoroughly covers complex, non-linear structures like Binary Trees, BSTs (Binary Search Trees), and even AVL Trees, detailing their implementation and use in storage and retrieval.

• Graph Theory: Explores Graphs with depth, covering representation using Adjacency Matrix and List, and essential traversals like Breadth-First Search (BFS) and Depth-First

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Search (DFS).

• Pathfinding Algorithms: Dedicated focus on practical solutions with algorithms for Minimum Spanning Trees (Kruskal's/Prim's) and Shortest Paths (Dijkstra's, Bellman-Ford, Floyd-Warshall).

• Algorithm Analysis: Offers a comprehensive unit on Search and Sorting Techniques (Quick Sort, Merge Sort, Heap Sort), with detailed analysis comparing the efficiency of various algorithms.

• Practical Coding: Includes numerous Solved Problems and C programming code examples for all major operations (insertion, deletion, traversal), enabling hands-on implementation skills.

• Real-World Applications: Features focused Case Studies throughout, illustrating how structures like Queues and Trees are utilized in practical scenarios such as hospital queue optimization and network routing.

• ICT Integration: Recommends specific digital tools, including online visualizers (like VisuAlgo) and competitive programming platforms (like LeetCode), to enhance interactive and application-based learning.

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Table Of Contents

- Introduction to Data Structure
- Stack and Queue
- Tree
- Graph
- Search and Sorting Techniques

Author

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K. Karunya

K. Karunya

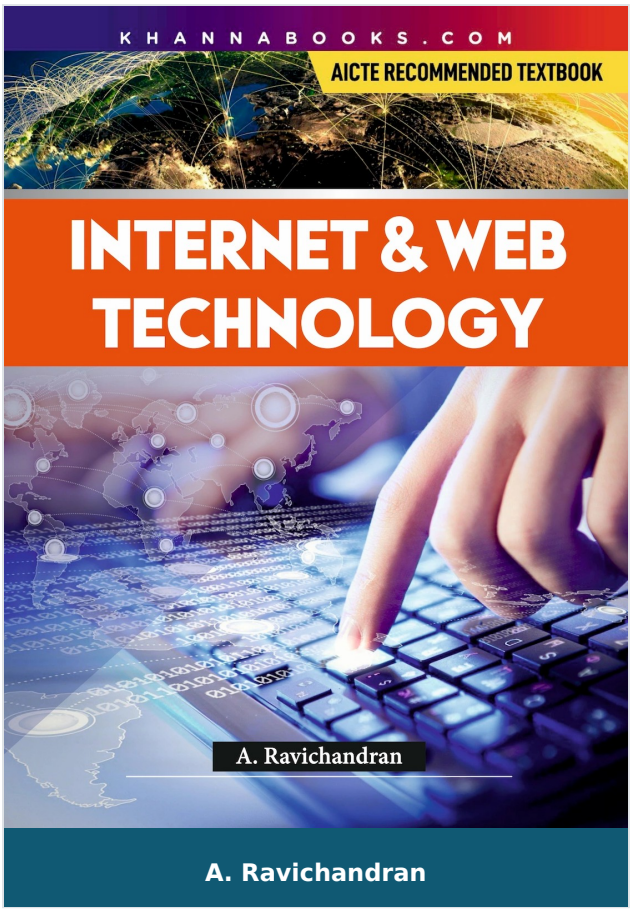
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Internet and Web Technology

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Product Description

This book covers all the important aspects of the Web and the Internet, their growth, usage and abilities. Each topic has various practical examples with both text and their outputs. Most of the current topics like JavaBeans, Java Servlets, Java Enterprises, JDBC, etc., are covered in the best possible manner. Each Chapter is interlaced with screenshots wherever needed. At the end of every chapter, you would find Revision, Multiple Choice Questions and Subjective Questions. These would enable you to get a better grasp over the subject.

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Table Of Contents

- Introduction to Web Development Strategies
- Introduction to HTML
- Cascade Style Sheets (CSS)
- Extensible Markup Language (XML)
- JavaScript
- JavaBeans
- Java Server Pages (JSP)
- JSP Directives and Standard Actions
- Java Servlets
- JDBC (Java Database Connectivity)
- Common Gateway Information (CGI), Practical Extraction and Review Language (PERL)
- RMI, VBScript & COM/DOM
- Active Server Pages (ASP)
- Index

Author

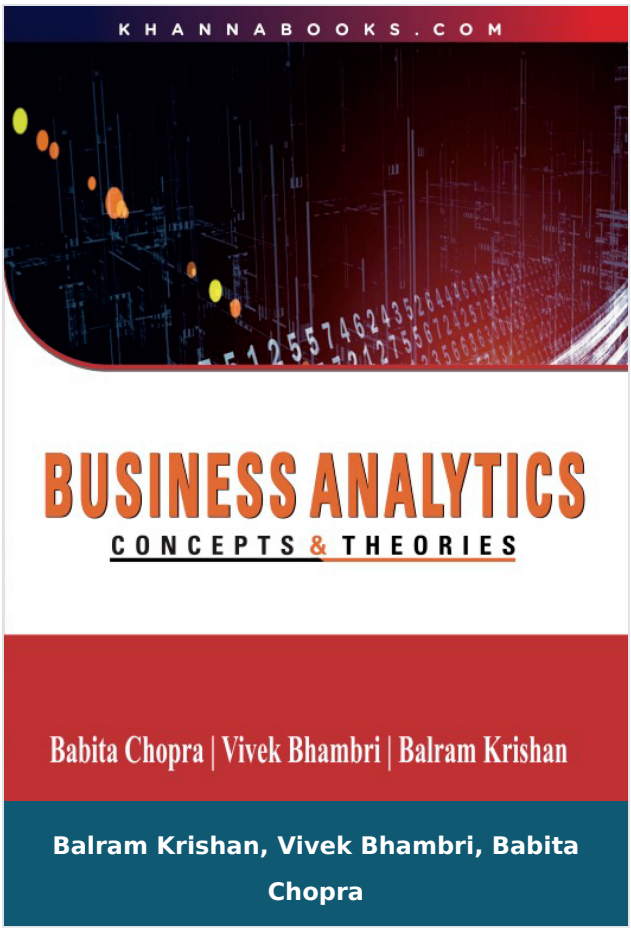
A. Ravichandran

A. Ravichandran He has obtained M.Tech degree in Computer Science & Engineering from IIT. Delhi and Ph.D degree in Computer Science and Engineering from IIT Kanpur. He has been in teaching field since 1983 and now currently guiding: research work on Image processing, Computer vision and Computer Graphics. He has also published 22 technical/research papers in National and International. He is an Sun certified programmer as well as Sun certified trainer by Sun Microsystems.

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Business Analytics

Author :	Balram Krishan, Vivek Bhambri, Babita Chopra
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Product Description

It has been rightly said that "people who can't see the value in data mining as a concept either don't have the data or don't have data with integrity." This book has been designed as a basic text book for computer Science and management students at post Graduation and under graduation levels. it explains the technical concepts of this hot area in simple and easily understandable language. It covers the complete syllabus of MCA, B. Tech courses of Punjabi University, Punjab University, Punjab Technical University and many other major universities.

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Table Of Contents

- Introduction To Business Intelligence
- Introduction To Business Analytic
- Introduction To Data Warehousing
- Data Modeling Concepts And Techniques
- Data Mining
- Techniques Of Data Mining
- Application Areas Of Data Mining
- Concepts Of Master Data Management
- Delivering Bi With Microsoft Sql Server 2012

Author

Balram Krishan

Balram Krishan MCA, M. Phil, is working as Assistant Professor, in Computer Science Department at Desh Bhagat Institute of Management and Computer Sciences, Mandi Gobindgarh, (Punjab). He has a total experience of 8 years in teaching. He has published more than 10 papers in International and National Journals. He is pursuing Ph. D. in Computer Science. His area of interest includes .NET and Cloud Computing.

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Vivek Bhambri is working as Head, Department of Computer Sciences at Desh Bhagat Institute of Management and Computer Sciences, Mandi Gobindgarh (Punjab). He has a total teaching experience of 10 years. He is pursuing his research in the field of data mining. His areas of interest include Data Mining and Computer Architecture. He has published more than 20 research papers in International and National Journals.

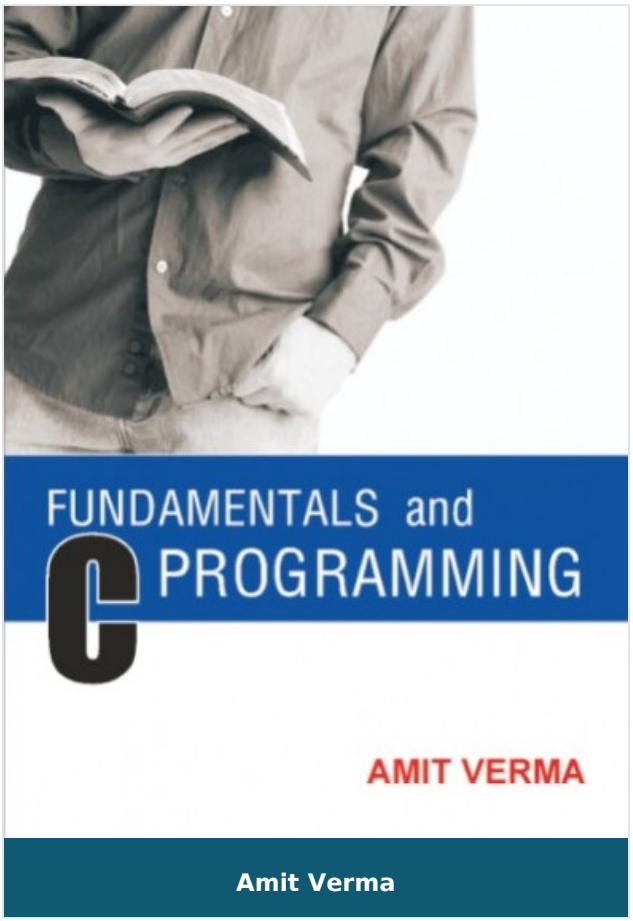
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Fundamentals and C Programming

Author :	Amit Verma
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Product Description

Primary aim of this book is to provide the complete syllabus for I year B. Tech students of Uttarakhand Technical University as well as for students of Uttar Pradesh Technical University. And also provides the crystal clear concepts of C programming language. this book provides the brilliant images for maximum topics so the students can get the maximum understand ability of the topic. The book consists of detail knowledge of some major topics which are not clearly explained in most of the books like DFD, Flow charts, Pointers, Structure, union...etc. This book consist of more than sufficient solved example of each type almost all the important C programs to give the best possible way to make the students understand the topics.

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Table Of Contents

- Concepts in Computer and Programming
- Programming Language Classification and Program Methodology
- Digital Fundamentals
- Concepts of Operating System, Office Tools and Data Management
- Data Type
- If Statement
- For Loop
- Array
- Pointer
- Structure
- Functions
- File Input/Output

Author

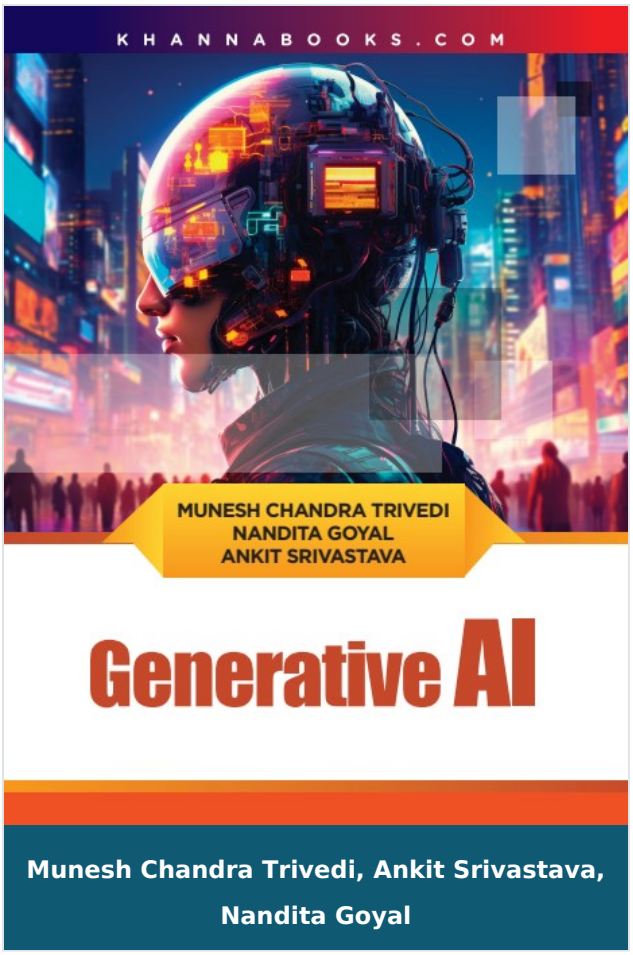
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Generative AI

Author :	Munesh Chandra Trivedi, Ankit Srivastava, Nandita Goyal
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Product Description

Generative AI: foundations, models, and Applications are a comprehensive guide that explores one of the most transformative areas of artificial intelligence—machines that create. This book offers an in-depth, yet accessible journey through the theoretical principles, algorithmic frameworks, and practical implementations that underpin generative models. Designed for students, researchers, and industry professionals alike, it bridges the gap between foundational understanding and real-world application.

The book begins with a concise introduction to machine learning and deep learning, establishing the mathematical and conceptual foundation required to understand generative models. It the systematically introduces key architectures such as variation autoencoders (VAEs), Generative adversarial Networks (GANs), autoregressive models, diffusion models, and large-scale transformer-based systems such as GPT and DALL-E.

Special attention is given to transformer architectures and multimodal generative models, which are reshaping fields such natural language processing, computer vision, digital art, and scientific discovery. Practical code examples and implementation guidance are provided using popular frameworks, empowering readers to build and experiment with their own models.

This book also examines the broader impact of generative AI--- from ethical considerations and safety challenges to the societal implications of machine- generated content. It encourages critical thinking about issues like deep fakes, misinformation, algorithmic bias, and intellectual property in the age of AI-Generated media.

Whether you are a student preparing for a career in AI, a software developer exploring new tools, or a researcher seeking a deeper understanding of generative technologies, this book serves as both a foundational text and a forward-looking reference. It combines clarity, depth, and practical relevance to help you master the art and science of

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Generative AI.

SALIENT FEATURES OF THE BOOK

- The language is simple and easily understandable.
- Includes hands-on approach for learning the subject.
- Explores a wide spectrum of generative architectures including variational autoencoders (VAEs), Generative adversarial Networks (GANs), Transformer-based models (e.g., GPT), Diffusion models, and multimodal systems.
- Provides mathematical details without losing the reader in complexity.
- Includes exercises and examples.
- Includes in-depth discussions on cutting-edge advancements such as attention mechanisms, transformer architectures, large language models (LLMs), prompt engineering, and fine-tuning techniques.
- Prepares readers not just to use today’s tools, but to adapt to tomorrow’s innovations---offering insights into emerging trends such as foundation models, generative agents, and open-ended creativity in AI.
- An application-centric view is highlighted to provide an understanding of the practical uses of each class of techniques.
- Greater focus is placed on modern deep learning ideas such as attention mechanisms, transformers, and pre-trained language models.

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Table Of Contents

- Introduction To Generative AI
- Foundational Concepts
- Generative Adversarial Network (GANs)
- Variational Autoencoders (VAEs)
- Transformer Models and Natural Language Generation
- Applications of Generative AI
- Generative AI For Business and Society
- Ethics and Challenges in Generative AI
- Technical Deep Dive
- Future of g
- Generative AI
- Case Study
- References

Author

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Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical

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University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32 international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

Ankit Srivastava

Mr. Ankit Srivastava is a dedicated academic and researcher with over six years of teaching experience in various engineering colleges and the National Institute of Electronics and Information Technology (NIT), Agartala, Tripura, India. His research primarily focuses on medical imaging and image processing, with an emphasis on leveraging artificial intelligence to contribute to technological advancements in healthcare. Mr. Srivastava has published six research papers in reputed SCI-E and Scopus-Indexed Journal, as well as in several national and international conferences. He also holds three national patents and is the author of a book titled “Introduction to AI and Machine Learning.” His academic journey reflects a strong commitment to innovation, Knowledge dissemination, and research excellence in the field of artificial intelligence and its application in medical science.

Nandita Goyal

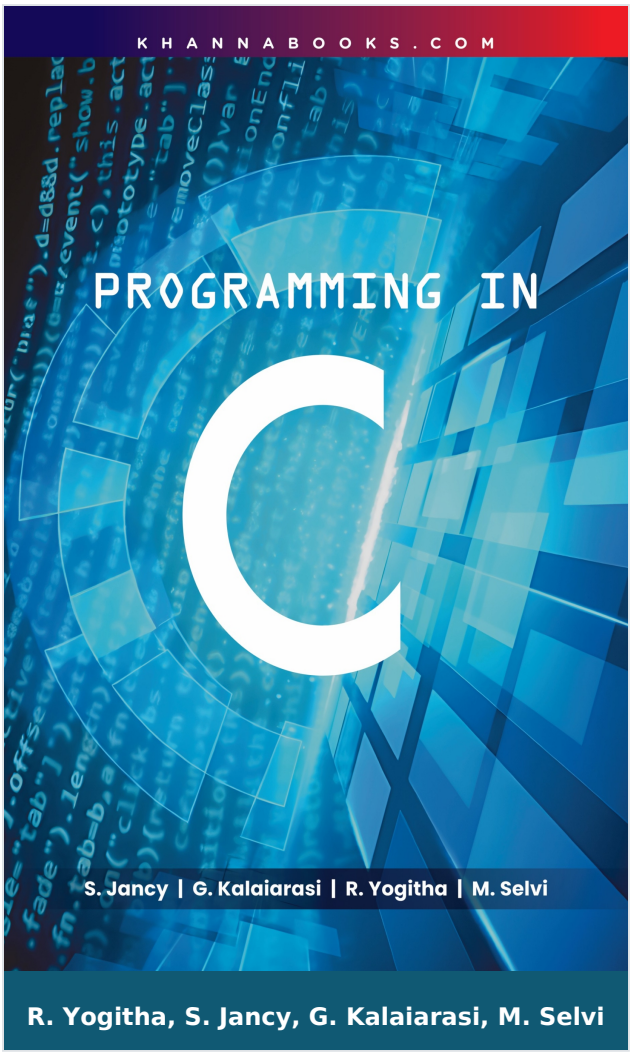
Dr. Nandita Goyal has more than 17 years’ experience in Teaching and Research. Her areas of interest are Cloud Computing, Deep learning and Neural Networks. She has published many research papers in different reputed International Journals and

Conferences.

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Programming in C

Author :	R. Yogitha, S. Jancy, G. Kalaiarasi, M. Selvi
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Product Description

This book, PROGRAMMING IN C, serves as an essential, comprehensive resource for mastering the C programming language, grounded in the foundational principles of computer science. The core theme is the seamless synergy between algorithmic problem-solving and practical, efficient C implementation. It begins by establishing a robust understanding of computational fundamentals, detailing the evolution of programming languages, and exploring key system components like Hardware, Software, Processor, and Memory.

The book's purpose is to mold readers into effective computational thinkers. It meticulously guides users through the art of problem-solving using structured techniques like Algorithms, Flowcharts, and Pseudocode. Crucially, it dedicates significant attention to measuring program performance through Time and Space Complexity (Big O Notation), enabling students to write code that is not only correct but also scalable and optimized.

Readers will gain mastery over the C program structure, fundamental data types, operators, and advanced concepts such as Modular Programming with Functions (including recursion and call-by-reference). Key data structures like Arrays, Strings, Pointers, and Structures are covered in depth. The target audience includes undergraduate students, aspiring software developers, and researchers who require a robust, hands-on, and efficiency-focused guide to system-level programming and computational logic.

Salient Features:

• Fundamental Computing Overview: The book starts with the basics of computer systems, covering Hardware, Software, Processor, and Memory, establishing a strong foundation before diving into coding.

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• Algorithmic Mastery: Teaches problem-solving using Algorithms, Flowcharts, and Pseudocode, acting as a blueprint for translating logical steps into clean, efficient code.

• Efficiency Analysis: Dedicated coverage of Time and Space Complexity (Big O Notation) ensures students learn to analyze algorithm efficiency and optimize programs for scalability and speed.

• Modular Programming: Master code organization using Functions (user-defined and library), covering concepts like parameter passing (Pass by Value/Reference) and advanced techniques like Recursion.

• Control Flow Logic: Clear explanations and examples of Decision-Making (if-else, switch) and Looping (for, while, do-while) statements, enabling the creation of dynamic and interactive programs.

• Essential Data Structures: Comprehensive units on managing data using Arrays (1D and Multi-dimensional), Strings, Pointers, and powerful heterogeneous containers like Structures and Unions.

• Hands-On Learning: Features multiple fully-coded Case Studies and Exercises on practical applications, including sorting, searching, calculating prime numbers, and building a scientific calculator.

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Table Of Contents

- Bits and Bytes in Computing
- C: Math Behind Coding
- C: magic Behind Instant Outputs
- Storing Group of Homogeneous Elements: Arrays
- Storing Group of Heterogeneous Elements: Structure

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Advanced Sensor Technology Handbook

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Product Description

ADVANVED SENSOR TECHNOLOGY HANDBOOK

This handbook explores the transformative role of sensor technologies in industrial and medical sectors. It highlights their integration with AI, IoT, AR/VR, 3D printing, blockchain, and cybersecurity. From predictive maintenance in manufacturing to real-time health monitoring and 3d bio-printing in medicine, sensors enhance efficiency, safety, and innovation. The book also examines historical developments, ethical concerns, and future prospects, including their role in automation, data security, and smart systems. A valuable resource for understanding how sensor technologies are shaping modern industries and improving lives.

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Table Of Contents

- Types and Classifications of Sensors and Control Systems 2. Fiber Optics in Sensors and Control Systems 3. Networking of Sensors and Control Systems in Manufacturing 4.The Role of Sensors and Control Technology in Computer-Integrated Manufacturing 5. Advanced Sensors Technology in Precision Manufacturing Applications 6. Industrial Sensors and Control 7. Sensors in Flexible Manufacturing Systems 8. Communications 9.MEMS Application in Energy Management 10. The NANO/MEMS Program 11. MEMS in The Medical Industry 12. MEMS: Current and Future Technology? 13. MEMS Advanced research and development 14. Functional integration of microsystems in silicon 15.automotive applications of microelectromechanical systems 16. A brief study of magnetism and magnetic sensors 17. The fundamentalsand value of infrared thermometry 18. GMR: the next of magnetic field sensors 19. Smart civil structures, intelligent structural systems 20. True online color sensing and recognition 21. Fundamentals of solid-state presence –technologies 22. Design and application robust instrumentation sensors in Extreme Environments 23. Color machine vision 24. Monolithic integrated physical and chemical sensors in CMOS Technology 25. A research prototype of a networked smart sensor system 26. Sensors and transmitters powered by fiber optics 27. A portable object-oriented environment model (PEOM) for smA process for selecting a commercial sensor actuator bus as an industry interoperable standard 28. art sensors 29. New generation of high- temperature fiber-optic pressure sensors 30. Principles and applications of acoustic sensors used for gas temperature and flow measurement 31. Understanding and applying intrinsic safety 32. Application of acoustic, strain, and optical sensors to NDE of steel highway bridges 33. Long- term monitoring of bridge pier integrity with time domain reflectometry cables 34. Sensors and instrumentation for the detection and measurement of humidity 35. Thermal imaging for manufacturing process and quality control 36. Detection of ppb levels of hydrazine using flourescescence and chemiluminescene techniques 37. Molecular relaxation rate spectrometer detection theory 38. Current state of the Art in hydrazine sensing 39. Microfabricated sensors: taking blood testing out of the laboratory 40. Closed-loop control of flow rate for dry bulk solids..... ETC.

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Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensoR x, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition), Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation, Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design

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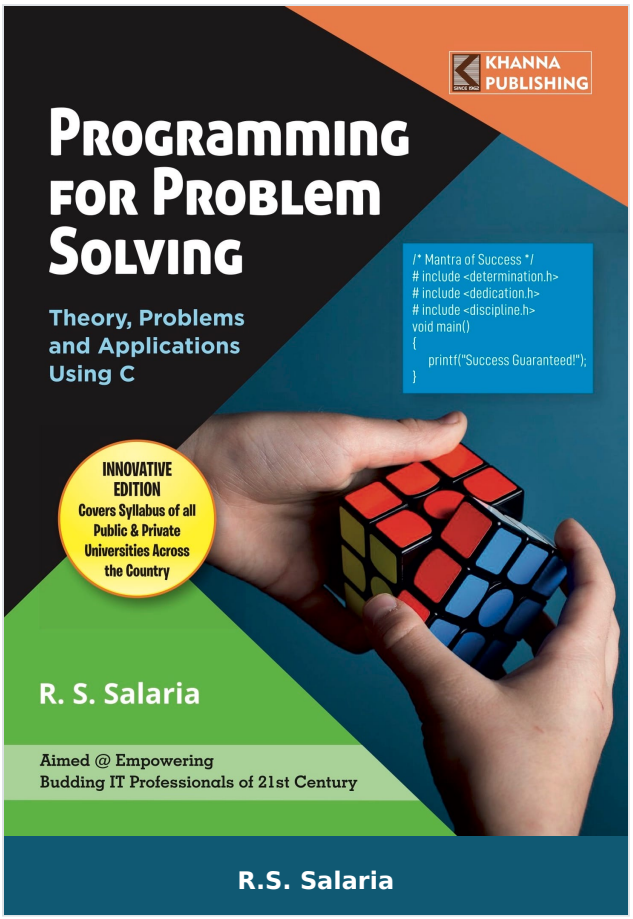
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Programming for Problem Solving

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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.

. Designed keeping in mind the objective of OUTCOME BASED EDUCTION.

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

. Illustrative example (165+ in number) to demonstrate the application of the concepts.

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

. 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) 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 Planning
- Overview of C Language
- Data Types, Variables and Constants
- Operators 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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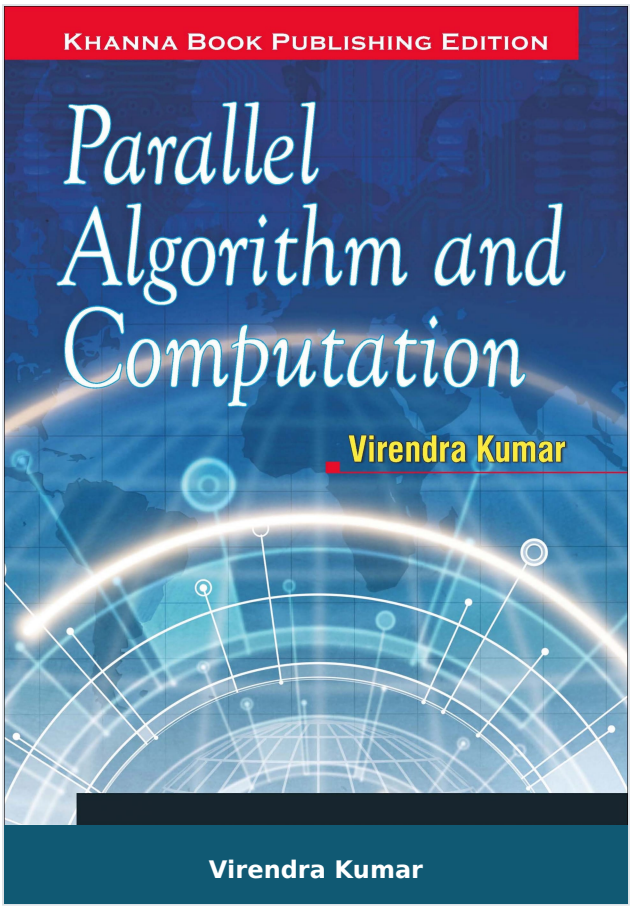
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Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well 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

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Parallel Algorithm and Computation

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Product Description

This book comprises all the aspects like principle and techniques for parallel algorithm, Parallel processing system, for B. Tech/MCA/M. Tech. Students of computer science and engineering/information technology. This book consist the syllabus of all Indian Universities, It also provides the basic concepts of parallel algorithm and computations.

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Table Of Contents

- Introduction Of Parallel Computation
- Parallel Computation Models & Interconnection Network
- Performance Measures Of Parallel Algorithms
- Parallel Sorting Networks
- Parallel Algorithm Designing
- Parallel Matrix Algorithm
- Linear Equation
- Graph Algorithm
- Combinatorial Search
- Parallel Programming Languages
- Appendix (a) polynomial
- Appendix (b): Open MP
- Appendix (c) : Message Passing Interface
- Model Test Paper 1-7
- Bibliography
- Index

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