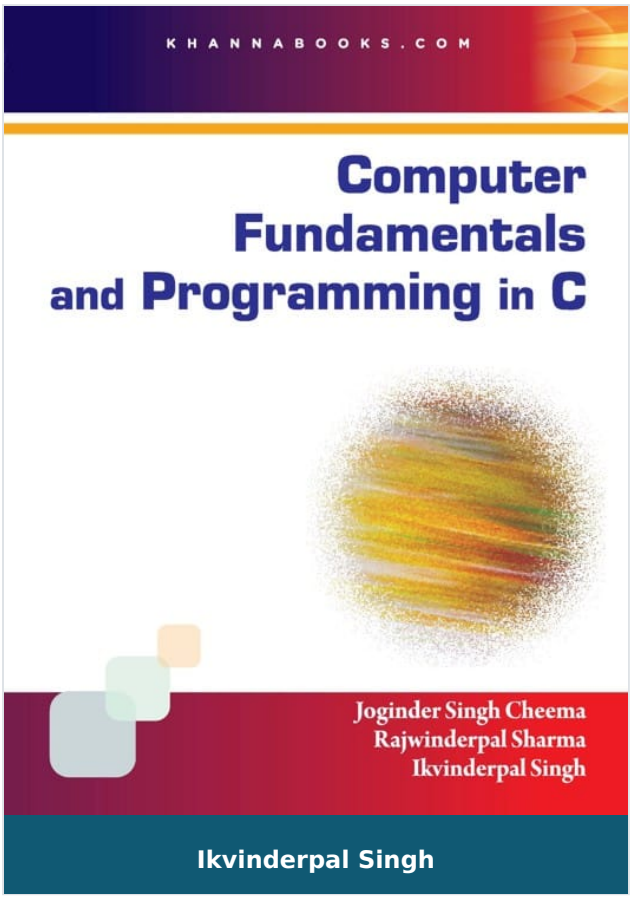

Computer Fundamentals & Programming in C

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Product Description

Explains the introduction to computers, history of computer, computer generations, classification of computers and applications of computer in corporate environment. Presents the basic organization of a computer system and its internal working. Describes the concept of number systems, computer codes and arithmetic, logic gates and Boolean algebra. Introduces the concept of primary and secondary storage. Explains the concept of different input and output devices. Presents the concept of computer software's and programming languages. Deals with commonly used various tools for planning the computer program like algorithm, flowcharts, pseudo code and decision tables. Complete introduction to C Programming including basic structure is given in detail. Extensive coverage of constants, variables, various data types are given in detail. Various types of operators and expressions are described with the help of examples and simple programs. Demonstrates the description of console I/O statements in a lucid manner. Each and every control statement is described with the help of flowcharts and simple programs. Includes numerous illustrative examples to understand the topic easily. Demonstrate every program in a good programming style. Around 200 numerous solved C Programs ans 100 objective type questions are included. Contains numerous theory exercises at the last of each chapter. Gives detailed description of arrays, strings and functions in lucid manner. Covers all concepts of pointers like array and pointer, function and pointer, dynamic memory allocation in detail. Detailed analysis of each and every storage class is covered with the help of programming examples. Detailed description to the concept of structures and unions.

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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 courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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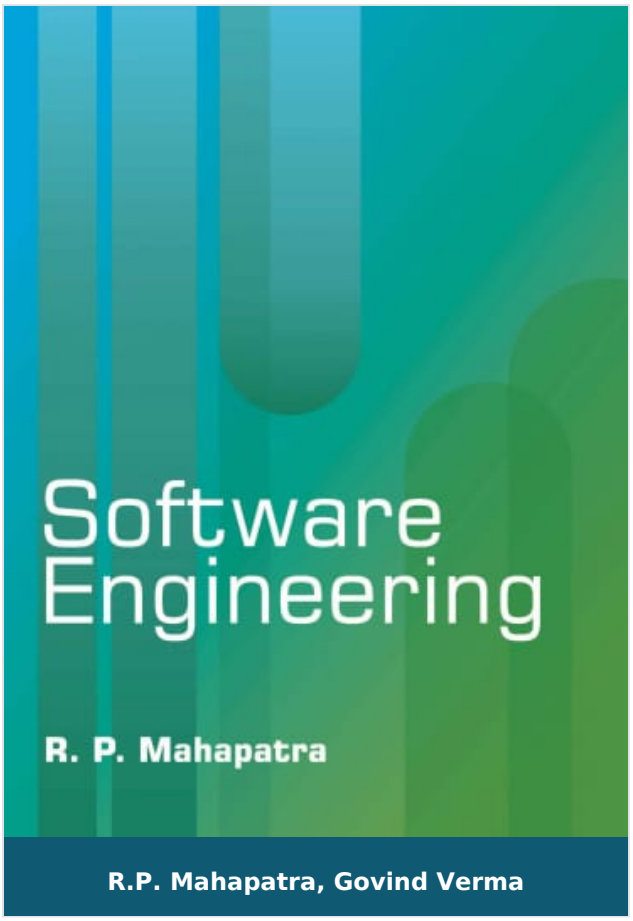

Software Engineering

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Easy-to-read writing style. Comprehensive coverage of all software engineering topics. Bullet lists and tables. More detailed examples of software implementations. Simple and easy explanation to complex topics like software design, software requirement, software coding and software testing. covers topics on implementation issues like software implementation, cost estimation, software reliability software quality and software maintenance. Latest advances in software engineering technology.

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- Software Metrics
- Software Quality
- Software Planning and Scheduling
- Software Cost Estimation
- Software project Management
- Software Re-Engineering.

Author

R.P. Mahapatra

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Ph.D under his guidance. "

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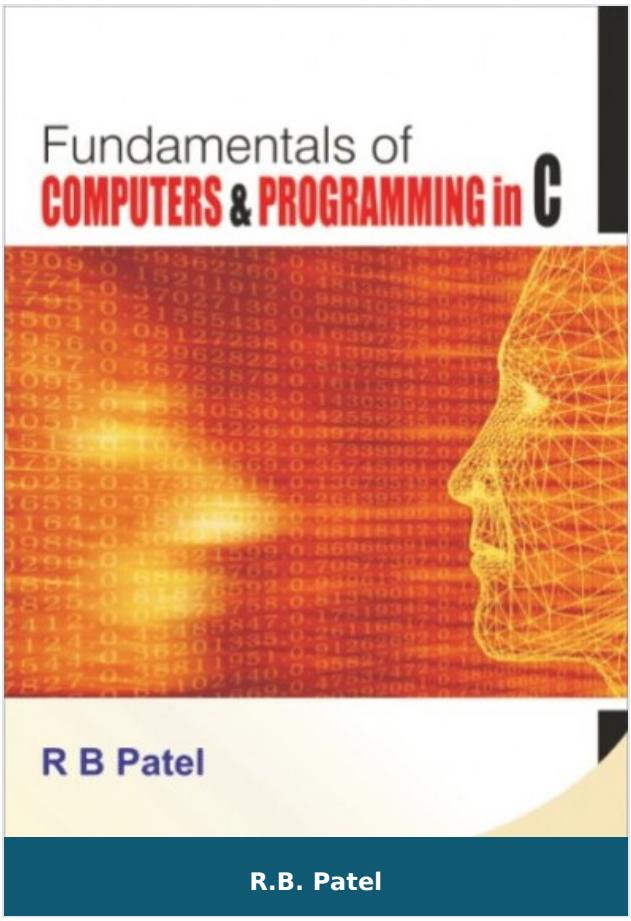

Fundamentals of Computers & Programming in C

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Product Description

This book provides comprehensive exploration and detailed coverage on computer fundamentals and C programming. Offering a solid foundation in computer fundamentals to applications, this book is ideally suited to the needs of undergraduate and postgraduate engineering students. It is equally well suited for self study by technical professionals.

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- Loops and Decisions
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Author

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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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- 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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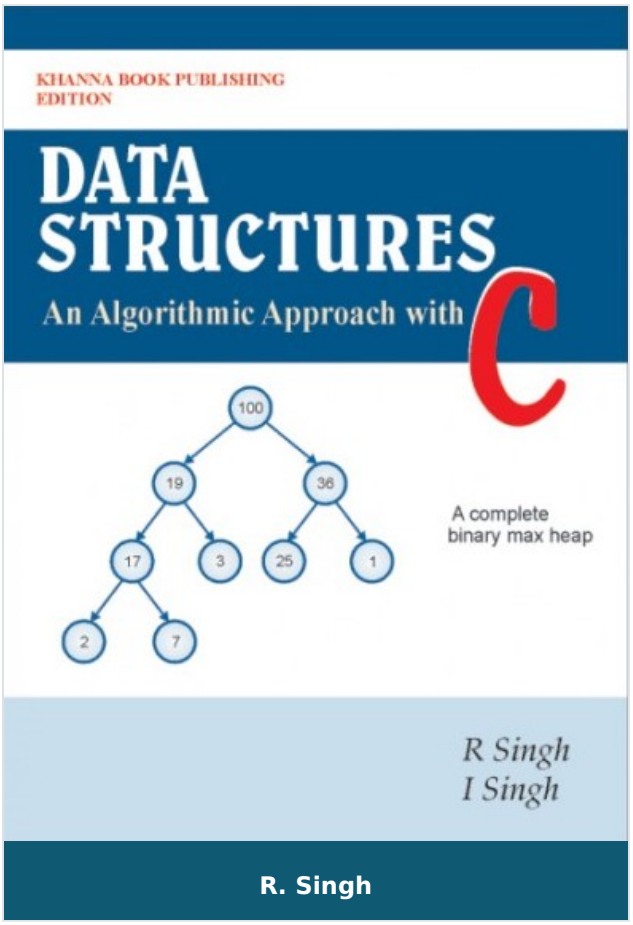

Data Structures - An Algorithmic Approach with C

Author :	R. Singh
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Product Description

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. Brief introduction to C language, various types of data structures and analysis of algorithms complexity 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. Objective-type questions have been provided. Around 200 solved C programs and algorithms are included. Diagrams are used extensively throughout the text. Contains numerous theory questions at the last of each chapter. Gives detailed description of arrays, stack and queues in lucid manner. Covers all tree structures like binary tree, binary search trees, AVL, B+ tree and red black trees in detail. Detailed analysis of each and every sorting and searching technique is covered with the help of Programming examples. Presents various hashing techniques like hash functions, linear probing, quadratic probing, double hashing and rehashing. Brief introduction to the concept of file and storage management. This book will be useful for student of BE (Computer/Electronics), B. Tech, ME(Computer/Electronics), M. Tech, MCA BCA, M.Sc., B.Sc. and also to students pursuing A/B/C-level course of DOEACC.

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- 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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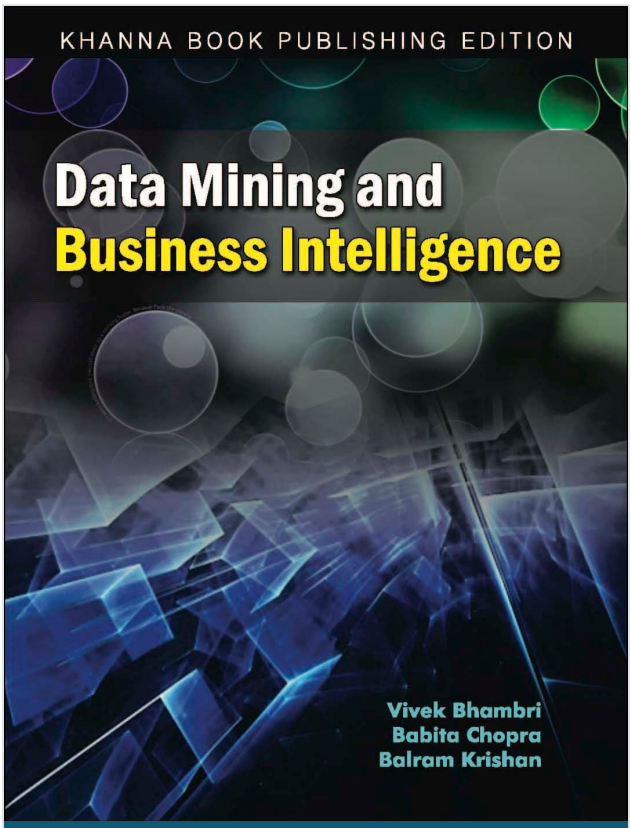

Balram Krishan, Vivek Bhambri, Babita Chopra

Data Mining and Business Intelligence

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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." The concepts of data mining and business intelligence are necessary for survival in the present era of cut throat competition. This book 'data mining and business intelligence' has been designed as a basic text-book for computer science 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, Guru Nanak Dev University and Kurukshetra University for the courses in Data Mining and Business Intelligence.

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- Classification
- Prediction Techniques
- Clustering Technique
- Application Areas Of Data Mining
- Introduction To Business Intelligence
- Concepts Of Data Management & Enterprise Reporting

Author

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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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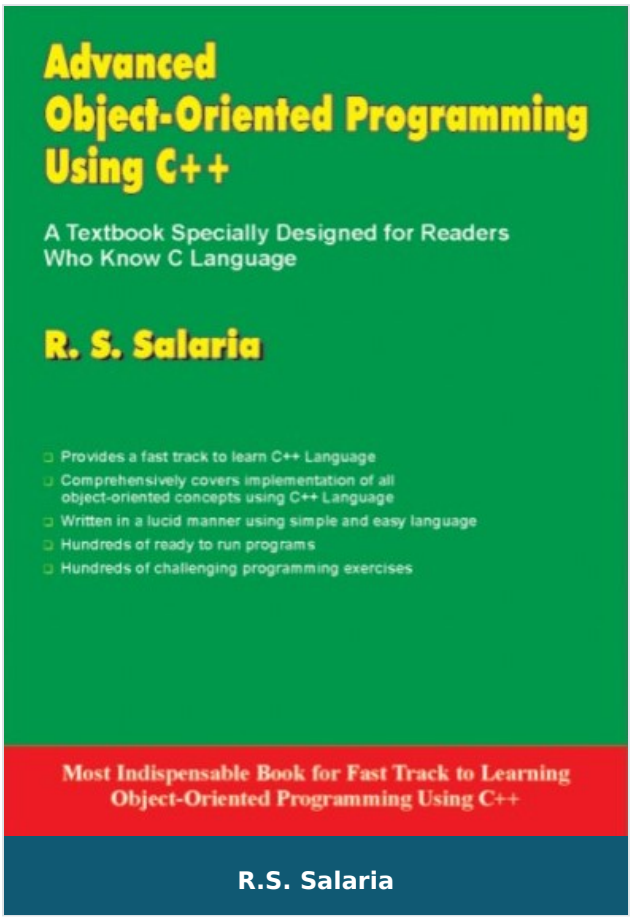

Advanced Object-Oriented Programming Using C++

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Product Description

There are two groups of readers-one who have no programming experience with C Language and the other who have programming experience with C language. This book is designed for those readers who have programming experience with C language and will provide them a fast track to learn object-oriented programming using C++. There is no repetition of the topics that they already know while learning C language. Since object-oriented concepts are altogether a new addition to C language, those are thoroughly explained and demonstrated with well designed programming examples. Provides a comprehensive coverage of the subject. Demonstrates the development of programs in a good programming style. Large number of ready to run programs for reference. Large number of multiple choice questions, true/false questions and review exercises to test your knowledge about the subject learned. Large number of programming exercises to test your programming skills acquired.

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- Working with Graphics Using C++
- Introduction to Standard Template Library
- Object-Oriented Implementation of Data Structures
- Object-Oriented Implementation of Sorting and Searching Algorithms.

Author

R.S. Salaria

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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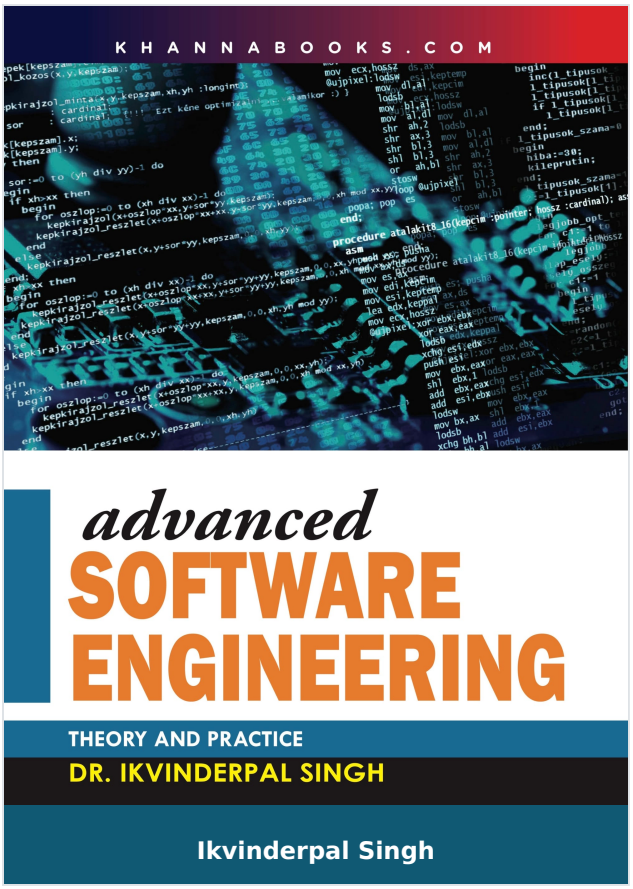

Advanced Software Engineering

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Product Description

Introduction to the software engineering milieu. Describe the software engineering Paradigms. Deals with planning and estimation. Describe the re engineering process. Deals with object oriented metrics. Describes the object-oriented analysis and design. Detailed explanation of software agents.

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- Software Economics
- Software Re engineering
- Software Re engineering Process
- Software Reuse
- Object Oriented Metrics
- Object Oriented Analysis & Design
- Element Of An Object-Oriented Model
- Software Agents
- Application Of Software Agents

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,

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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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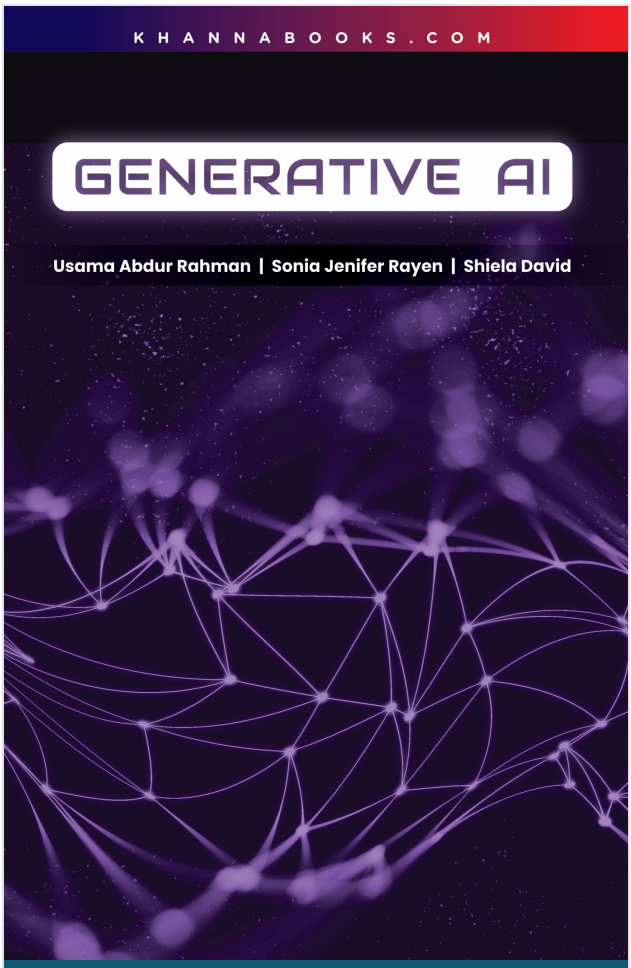

Sonia Jenifer Rayen, Shiela David, Usama Abdur Rahman

Generative AI

Author :	Sonia Jenifer Rayen, Shiela David, Usama Abdur Rahman
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Product Description

Generative AI (Gen AI) has rapidly evolved from a theoretical concept into a transformative technology capable of simulating human creativity, generating content, producing innovative ideas, and enabling autonomous decision-making. This book serves as a comprehensive and structured guide to understanding the foundations, architectures, applications, and future directions of Generative Artificial Intelligence. Designed for students, researchers, professionals, and technology enthusiasts, it provides both theoretical insights and practical perspectives on one of the most influential fields in modern computing.

The text begins by tracing the historical evolution of Artificial Intelligence, highlighting key milestones that shaped the development of machine learning and intelligent systems. It then builds a strong conceptual foundation by introducing Neural Networks and the revolutionary Transformer Architecture, which forms the backbone of modern generative systems. Special emphasis is placed on the Attention Mechanism, encoder-decoder architectures, and the emergence of Large Language Models (LLMs) that power advanced conversational and content-generation systems.

Beyond foundational concepts, the book explores advanced generative techniques such as Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs), explaining their architectures, workflows, and practical applications. Readers gain insights into how generative models create realistic text, images, and multimedia content, while also understanding the principles behind AI Agents, prompt engineering, and modern AI development frameworks.

The practical relevance of Generative AI is demonstrated through extensive real-world applications across healthcare, finance, manufacturing, software engineering, media, and entertainment. The text also addresses critical contemporary topics including model

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evaluation metrics, ethical considerations, responsible AI development, and emerging innovations such as Quantum AI and Neuromorphic Computing. By combining academic rigor with practical implementation, this book provides a complete roadmap for mastering the rapidly evolving landscape of Generative Artificial Intelligence.

Salient Features:

- Foundational AI Concepts: Provides a detailed overview of the history and evolution of Artificial Intelligence, establishing a strong foundation in neural networks, machine learning, and the development of generative technologies.
- Transformer Architecture Deep Dive: Thoroughly explains Transformer Models, the Attention Mechanism, and the distinctions between encoder-based architectures (such as BERT) and decoder-based Large Language Models.
- Large Language Model Mastery: Covers the principles, architectures, and applications of LLMs, including their use in natural language processing, content generation, summarization, translation, and conversational AI systems.
- Advanced Generative Models: Presents comprehensive coverage of Variational Autoencoders (VAEs) and Generative Adversarial Networks (GANs), detailing their components, workflows, training methodologies, and practical applications.
- Practical AI Agents & Frameworks: Introduces AI Agents and modern development frameworks such as Lang Chain, enabling readers to build scalable and production-ready Generative AI applications.
- Cross-Industry Applications: Demonstrates the transformative impact of Generative AI across multiple sectors, including healthcare, manufacturing, finance, software development, and digital media.
- Model Evaluation Techniques: Explains important evaluation metrics such as Perplexity, BLEU Score, and ROUGE Score, helping readers assess and benchmark the performance of generative and language models.

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- Future & Ethical Directions: Explores emerging topics including Multimodal AI, prompt optimization techniques (Top-K and Top-P sampling), ethical AI practices, Quantum AI, and Neuromorphic Computing.

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- Large Language Models (LLMs)
- Image Generation
- Model Evaluation and Future of Generative AI

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Debtoru Chatterjee, an Indian Postal Service Officer (1994 batch), has served 11 years in a central police organization, including as an Inspector General, besides a five-year stint as an army Colonel. An honor graduate from Presidency College Calcutta, he holds and M.Sc. (Distinction) in Cyber Forensics and Information Security from the University of Madras; an MBA (IT Systems) (Distinction) from ICFAI; and a Master in Business Laws from National Law School, Bangalore. A keen student of Kali Linux and Python, he has also authored a companion book "Cyber-Crime and its Prevention in Easy Steps".

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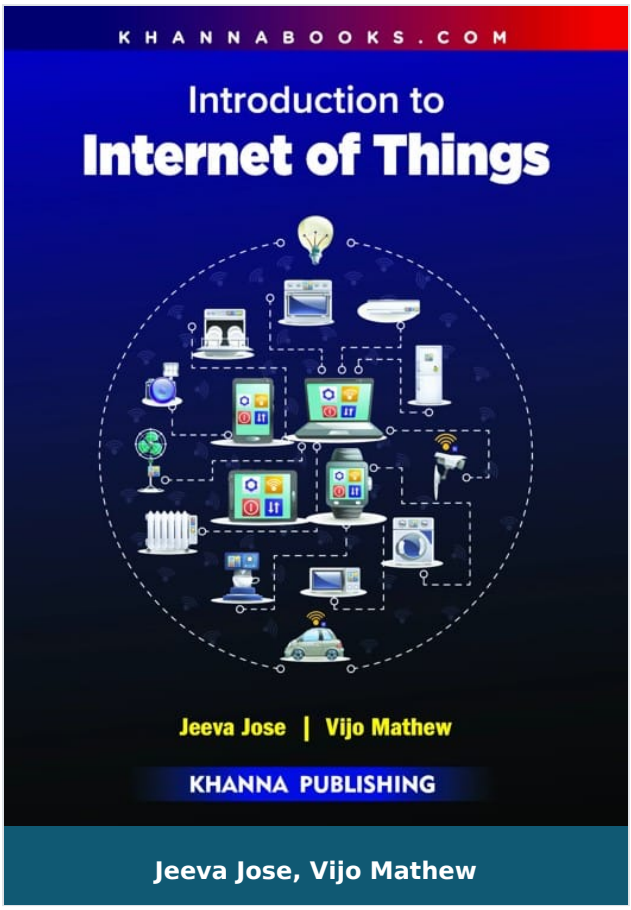

Jeeva Jose, Vijo Mathew

Introduction to Internet of Things

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Product Description

Salient Features of this book:-

1. Covers Complete AICTE syllabus of Internet of Things (IOT-O1) miner change degree course .

2. Provides introduction to IOT in a simple method.

3. Best self- study material and reference guide.

4. Explains the technologies & standards related to IOT.

5. IOT Ecosystem is discussed in detail.

6. Will help to develop skills in IOT technical planning.

7. Each chapter is provided with objective questions with answers and review questions.

8. The full form and explanation of the abbreviations used are given in each chapter.

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Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and areas of interests include world wide web, Data Mining and Cyber laws. She has been in higher education for the last 15 years and has completed three research projects funded by UGC and KSCSTE. She has published more than twenty research papers in various refereed journals and conference proceedings. She has edited three books and has given many invited talks in various conferences. She is a recipient of ACM-W Scholarship provided by Association for Computing Machinery, New York.

Vijo Mathew

Vijo Mathew is a highly accomplished engineer with three decades of experience in driving innovation and growth in various electrical, electronics, and information technology industries. His track record is complemented by a postgraduate degree in management, equipping him to excel in business management, strategic management, and technology management. His expertise is highly valued in the fields of software, electrical and electronics hardware, and design where he provides strategic guidance and mentorship to organizations seeking to stay ahead of the curve. He has demonstrated a unique ability to bridge the gap between technology and business driving success through his visionary approach and collaborative leadership style. His leadership skills and technical acumen have made him an advisor to some reputed national and

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international corporations. As an advisor and strategic leader, he is helping organizations achieve their full potential through innovative solutions, effective management, and visionary leadership. He is also author of many books related to technology and management.

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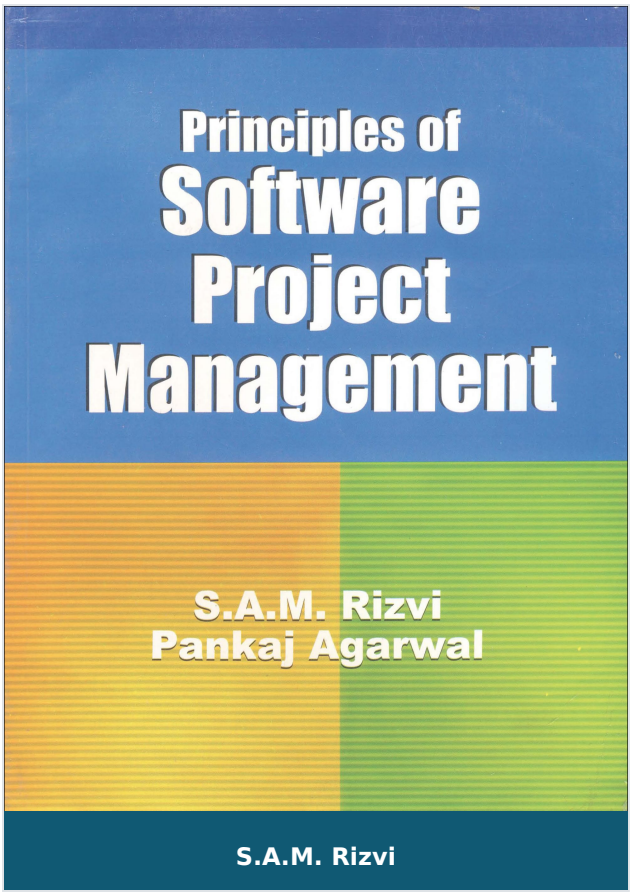

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- Software Quality Assurance
- Software Configuration Management
- MS Project Tutorial

Author

S.A.M. Rizvi

Dr. S.A.M. Rizvi is a Ph.D in Computer Science & Engineering, and an internationally recognized Computer Scientist of repute, having more than 25 years of experience out of which seven years as Professor of Computer Science and Academic Administrator in India and Abroad prior to his joining Jamia Millia Islamia, New Delhi, as an Associate Professor and Former Head in the Department of Computer Science. He has taught in (Credit Hour) USA, Australian, UAE and Indian Educational Systems. An Institution Builder, he has to his credit of being Instrumental in establishing Engineering Colleges, Deemed University and attaining these institution the highest level of National and International Accreditation. Dr. Rizvi is an Expert in Software Engineering with numerous publications of research papers and textbooks in the area of Computer Science and its applications. He has been instrumental in designing courses as Chairman and member of BOS and Academic Bodies

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