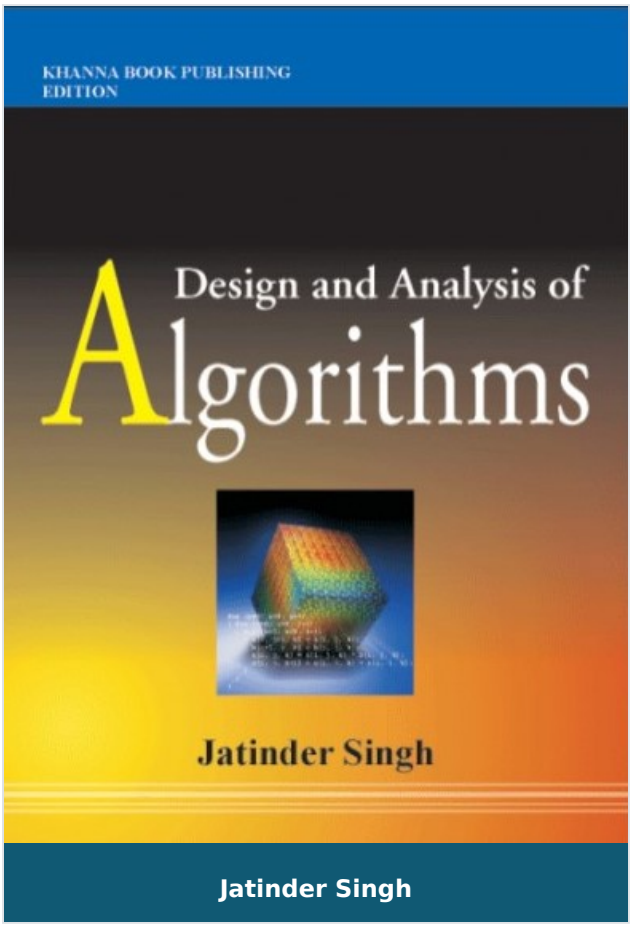

Jatinder Singh

Design & Analysis of Algorithms

Author :	Jatinder Singh
ISBN 13 :	978-93-80016-71-9
ISBN 10 :	9380016719
E-ISBN 13 :	978-93-80016-71-9
Edition :	1
Pages :	390
Type of book :	Physical
Year :	2011
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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Product Description

This book is an ideal test to provide in depth knowledge on design and analysis of algorithm. The purpose of the book is to make the students understand the fundamentals of design and analysis of algorithm conveniently. It is meant to be used as a text book for BSc/BCA/MCA/MSc/ B.E./B. Tech/MSc/MS/M. Tech and diploma courses, and as a reference book.

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- UNIT - 3
- Dynamic Programming
- The Greedy Method
- Backtracking
- Divide and Conquer
- Branch and Bound
- UNIT - 4
- Chapter 2: Graphs
- Single- Source Shortest Path
- All-Pairs Shortest Paths
- Dijkstraâ€™s Algorithm
- Minimum-Cost Spanning Trees
- UNIT - 5
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- Randomization
- Amortized Analysis of Data Structure

Author

Jatinder Singh

Er. Jatinder Singh (Asst. Professor) Dept.of I.T. , S.S.S. College of Engg. And Tech. Gurdaspur (PB)

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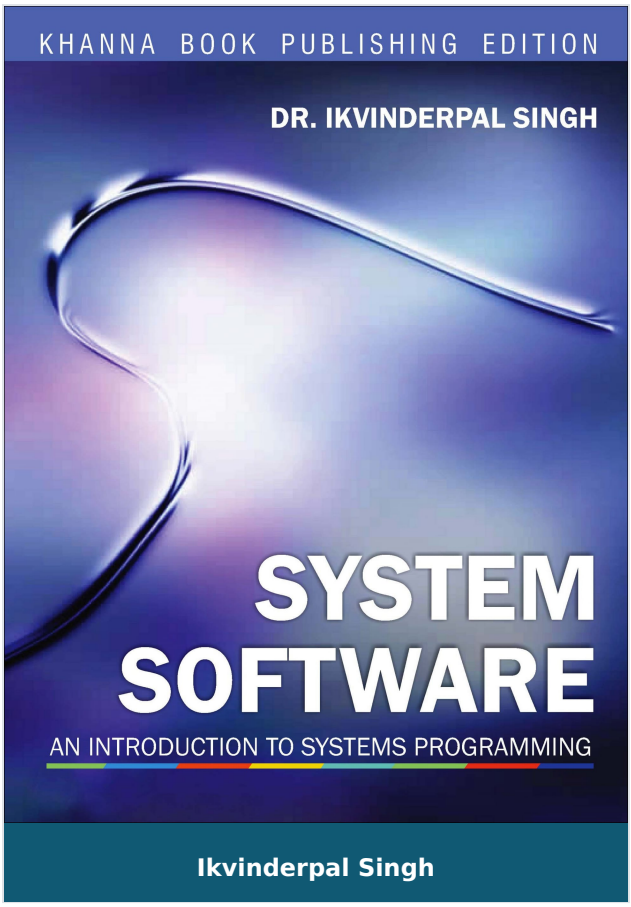

System Software

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-81068-71-7
ISBN 10 :	9381068712
E-ISBN 13 :	978-93-81068-71-7
Edition :	1
Pages :	408
Type of book :	Physical
Year :	2015
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 325.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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Product Description

Fundamental concepts are introduced in simple terms, Numerous examples are included to illustrate concepts and techniques. The sequence of topics is well planned to provide a seamless transition from design to implementation. Fundamental concepts and basic design of each type of software in a machine-independent way. With each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. The exercises can be found at the end each chapter. Other sections are devoted to DBMS, text editor and interactive debugging systems.

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- Operating System
- System Software Tools

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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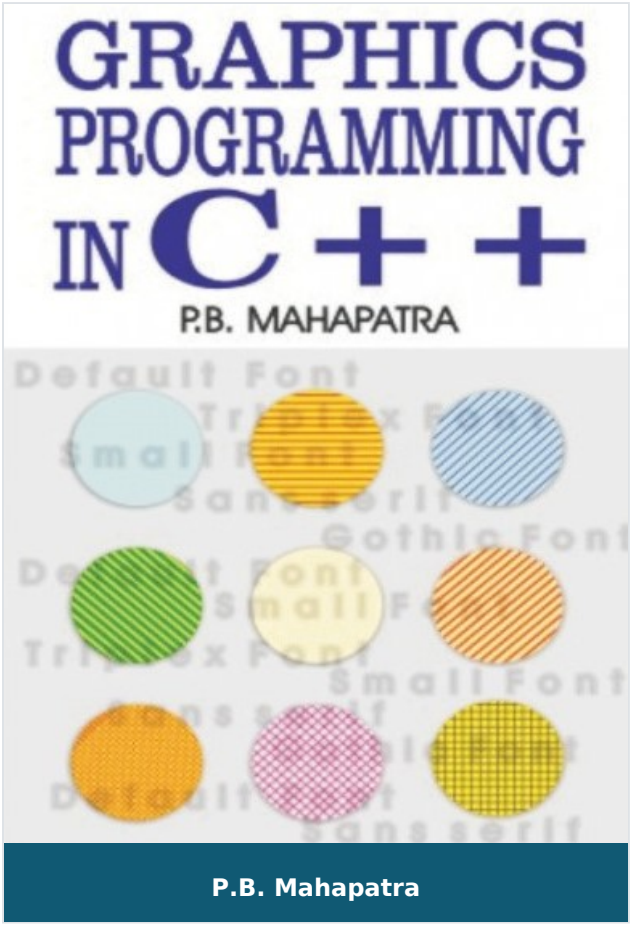

Graphics Programming in C++

Author :	P.B. Mahapatra
ISBN 13 :	978-81-87522-38-0
ISBN 10 :	8187522380
E-ISBN 13 :	978-81-87522-38-0
Edition :	First
Pages :	274
Type of book :	Physical
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 125.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

The coverage of graphics in graphics in normal courses on C or C++ is only marginal. The idea of a student after a course on or C++ is that, a graphic image can be generated through a program and not by clicking and dragging the mouse as is done in menu driven interactive packages like coral DRAW, Photoshop, AutoCAD or paintbrush, without these options a number of students fail to appreciate the very purpose of graphics under C or C++. They do not know that the compiler can be used to design full CAD packages with all these options and a lot more. Once the full potential of the C++ compiler is understood, the students, where studying engineering, BCA, MCA or attending short term computer courses, are very inquisitive and enthusiastic to learn more about graphics under C/C++.

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- Direct Access Color Graphics
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- File Input/ Output of Graphic Images
- Increase your Colour Options
- Translation
- Rotation & Scaling
- Three Dimensional Graphics

Author

P.B. Mahapatra

Dr. P.B. Mahapatra, after an illustrious student career in I.I.T., Kharagpur, joined the faculty of Punjab Engineering College in 1970 as Assistant professor in the department of production Engineering. Since then he has served the institute in various capacities and at the moment serving as professor in the department of mechanical Engineering. His area of interest includes production Management, Industrial Engineering, quality control and operations research. His first books was Thinking in C published in 1996. The success of the book all over the country and numerous requests from potential readers for more such books prompted him to write a number of books on computer science. Other books authored by him include Thinking in C++, Thinking in Java, Graphic under C++ and

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Computer Aided production Management. Two more volumes, Essentials of information practice and essentials of computer Science have been authored by him for school children, written strictly according to the CBSE Syllabus, these are also very popular in school.

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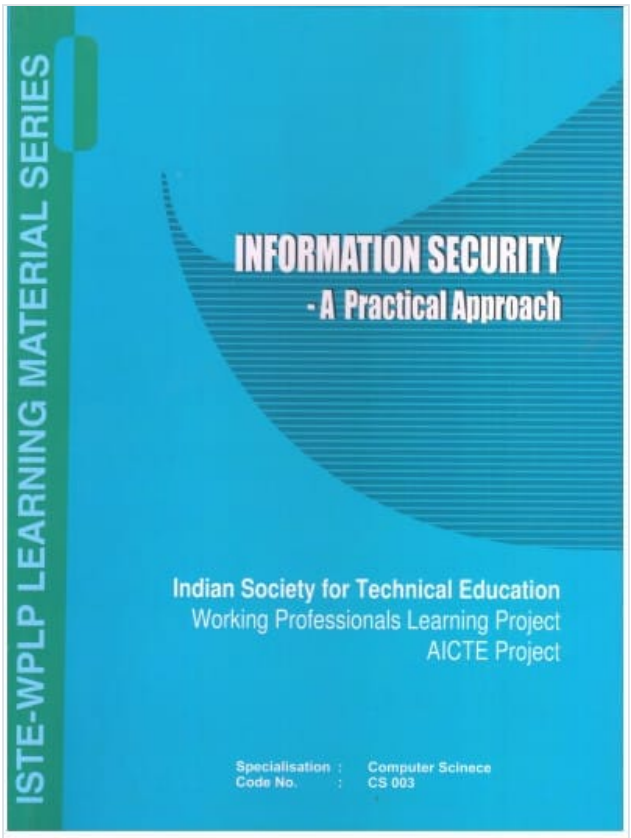

V.Vasudevan, S. Dhanasekaran, B. S. Murugan

Information Security- a Practical Approach

Author :	V.Vasudevan, S. Dhanasekaran, B. S. Murugan
ISBN 13 :	978-93-55386-89-2
ISBN 10 :	9355386893
E-ISBN 13 :	978-93-55386-89-2
Edition :	1
Pages :	132
Type of book :	Physical
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 188.00
Categories :	Computer Science Engineering, Book Store, ISTE Series, Best Sellers
Condition Type :	New
Country Origin :	India

Product Description

The book Information Security-A Practical Approach, is a strenuous attempt taken by the authors to encapsulate concepts of Network-Security. Information security, something shortened to InfoSec, is the modification, inspection, recording or destruction of information. This book provides a rudimentary and firsthand knowledge on Information Security pertaining to the standards and procedures available in Information Security, the implementation of security and authentication algorithms which is the need of the hour for the small scale industries. The components of the chapters give a perspicuous view on confidentiality, integrity, availability, policy and its various types, encryption, decryption and so forth to cater not the needs of the working professionals and entrepreneurs as well. Especially the chapter on case studies provides hands on experience and reiterates the significance of protecting data and information. The prime objective of this book is to enable the entrepreneurs of Small Scale Industries to ensure secrecy and privacy of information.

There has been a vast study on physical security and network security whereas information security is the latest process that gains momentum. We feel obliged to share our knowledge, analysis and recommendations through this manual which will create awareness among the entrepreneurs, about the paramount important of Information Security and to understand the easiest way to implementation those algorithms.

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- FOREWORD
- PREFACE
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- Organization Strategies for Information Security
- Essential Mathematics for Information Security
- Standard Security Algorithms
- Implementation of Security Algorithm
- Case Studies

Author

V.Vasudevan

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S. Dhanasekaran

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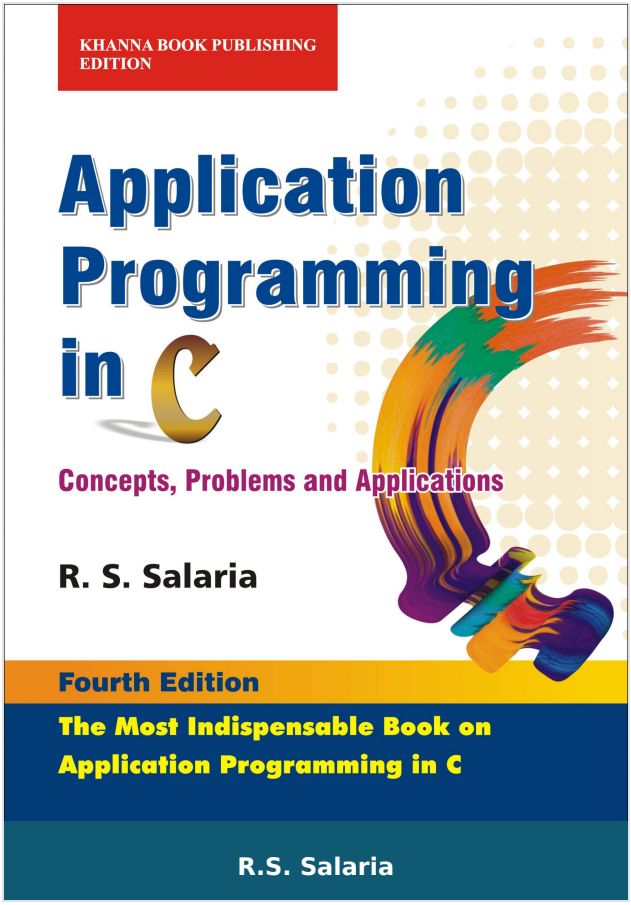

Application Programming in C

Author :	R.S. Salaria
ISBN 13 :	978-93-81068-42-7
ISBN 10 :	9381068429
E-ISBN 13 :	978-93-81068-42-7
Edition :	4
Pages :	600
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 750.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Product Description

This book is one of the compulsory course in the curriculum of almost all universities other institutes offering undergraduate and postgraduate courses in computer science and information technology. This book is designed to serve as a textbook for the students taking these courses. the level of presentation in kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease. Practically this book will provide you every this you need on the subject of programming in C.

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- Overview of C Language
- Data types Operators & Expressions
- Handling Keyboard Input & Screen Output
- Control Statements
- Functions
- Program Structure & Storage Classes
- Array Processing
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- More About Data Types & Bitwise Operators
- Pointers & Dynamic Memory Management
- Managing Data Files
- Working With Graphics Using Turbo C
- Sorting, Searching & Merging
- Appendices
- Index

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:

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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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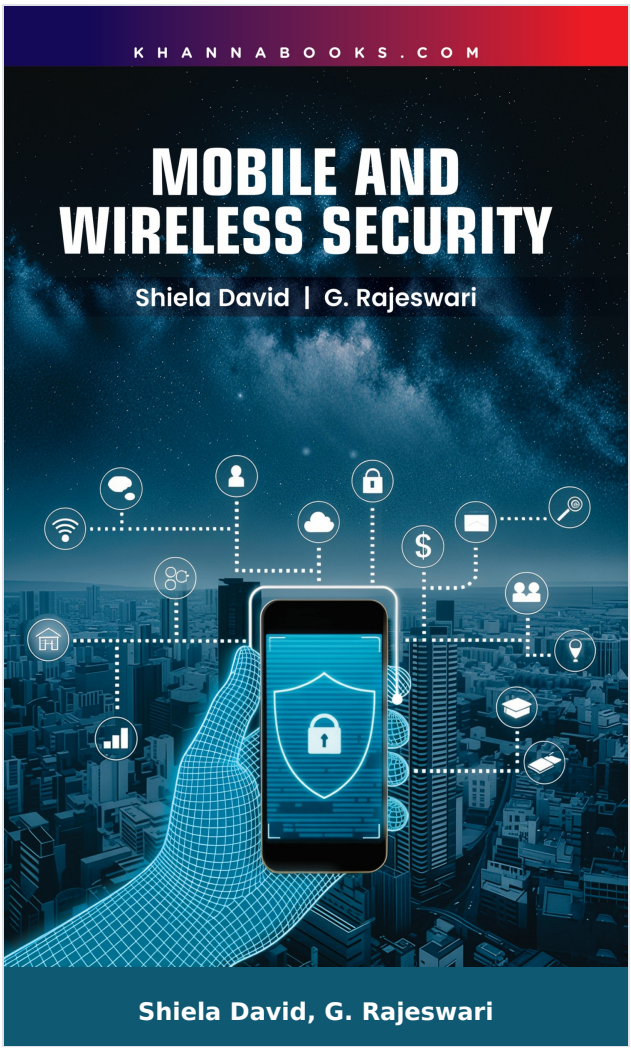

Mobile and Wireless Security

Author :	Shiela David, G. Rajeswari
ISBN 13 :	978-93-55389-03-9
ISBN 10 :	9355389035
E-ISBN 13 :	978-93-55389-03-9
Edition :	1
Pages :	64
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 148.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

Product Description

In our modern, interconnected world, where wireless networks and mobile devices have become ubiquitous tools for communication, business, and daily life, the imperative for robust security has never been greater. This handbook, Mobile and Wireless Security, serves as an essential guide, providing an in-depth understanding of this dynamic and critical field, from foundational principles to the newest industry trends.

The core purpose of this material is to illuminate the underlying systems of wireless technology and expose the resultant security threats they face. The book's major goals are to enable readers to grasp the basic features of wireless systems, meticulously examine the necessary security protocols and cryptographic methods, and confidently implement effective security practices across various wireless devices. It thoroughly addresses the vast array of threats, such as unauthorized access, data intrusion, and Denial of Service (DoS) attacks, that compromise modern wireless environments.

This resource is designed for a broad target audience, including IT professionals, cybersecurity experts, academics, students, and any individual or organization—from enterprises to governments—who must proactively safeguard sensitive data and defend against unauthorized access in a mobile-first landscape. By the end of this journey, you will possess the practical knowledge required to apply sophisticated security measures to mobile wireless systems with the confidence needed to secure wireless networks in real-world applications.

Salient Features:

• Foundational Network Models: Delivers a clear overview of the OSI and TCP/IP models, establishing the fundamental theoretical frameworks necessary for understanding how various network protocols interact during end-to-end communication.

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• Core Cryptography Methods: Covers symmetric and asymmetric cryptography schemes, hash functions, and key secure protocols like SSL/TLS and IPSec, which are crucial for securing data confidentiality, integrity, and non-repudiation.

• Device Security Analysis: Dedicated content analyzes security problems specific to wireless devices, including Laptops and Handsets, covering topics like physical security, application security, and the risks of information leakage.

• Cellular System Defense: Explores security considerations for cellular networks, detailing threats, types of Cellular Fraud, and the security mechanisms employed within systems like GSM and data networks such as GPRS.

• Wireless Threat Landscape: Defines and provides mitigation techniques for pervasive wireless threats, including Eavesdropping, Communication Jamming, Rogue Client Attacks, and vulnerabilities arising from weak cryptographic algorithms.

• Practical LAN Implementation: Offers practical security guidance on deploying Wireless LANs in various organizational structures, including Large Enterprise Campuses, Wireless ISP Designs, and Small Office/Home Office (SOHO) environments.

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- Wireless Technology and Wireless Security
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- Security Considerations for Wireless Devices
- Wireless Technologies and Applications
- Implementing Wireless LANs: Security Concideration s

Author

Shiela David

Shiela David

G. Rajeswari

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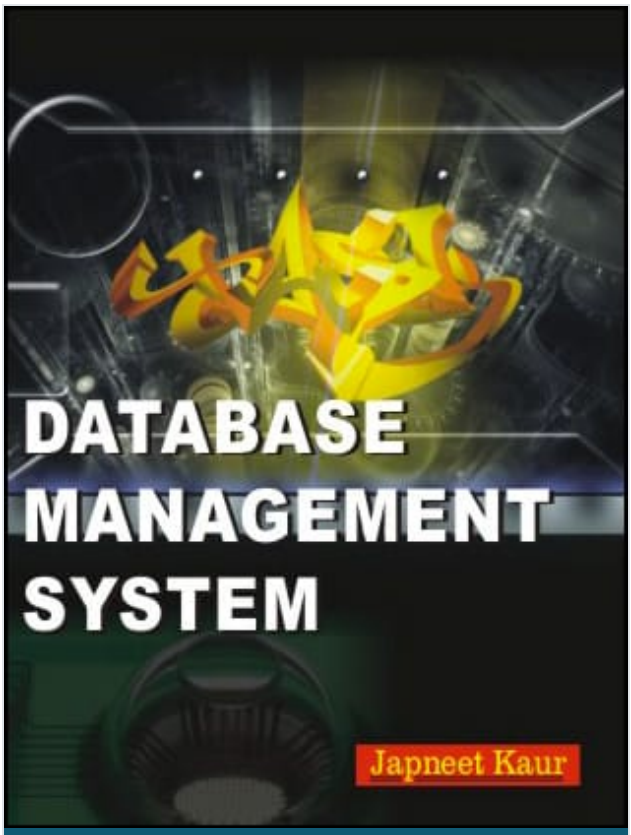

Japneet Kaur

Database Management System

Author :	Japneet Kaur
ISBN 13 :	978-93-80016-05-4
ISBN 10 :	9380016050
E-ISBN 13 :	978-93-80016-05-4
Edition :	1
Pages :	580
Type of book :	Physical
Year :	2010
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

The major objective of this book is to provide a strong formal foundation in database concepts, technology and practice to the readers to groom them into well-informed database application developers. Rather than discussing isolated knowledge/experience fragments in each of the concepts, technology and practice, the book will aim at achieving a good blend of the three. The overriding concern, therefore, it to include just enough concepts and theory to motivate and enrich the practical component, and to include technology component to maximize the relevance of the book to the industry without sacrificing the long-term objectives of rigour and foundational strenght that can withstand the vagaries of technological advances. Written in simple and lucid language. Covers the UG and PG courses of various universities. Designed for the students as well as for the professionals. covered wide ranging topics with flexible organization and logical flow, enriched with large no. of examples and illustrative figures. Beside the basic fundamentals of DBMS this book also covers the advanced topics in database system such as distributed databases recovery, Transaction, concurrency and security etc. Special emphasis has been given on emerging trends in database System. numbers of expected questions are given for practices.

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- Database concepts and Architecture
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- Entity Relationship Modeling
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- Normalization
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- Database Security and Integrity
- Object Oriented Databases
- Distributed Database Management System
- Expert System
- Oracle Structured Query Language* Plus
- Procedural Languages/Structured Query Language
- Developer Form
- Developer Report

Author

Japneet Kaur

DR. Japneet Kaur B.Sc./BCA/M.Sc./MCA/B.Tech./M. Tech. etc of various Indian Universities.

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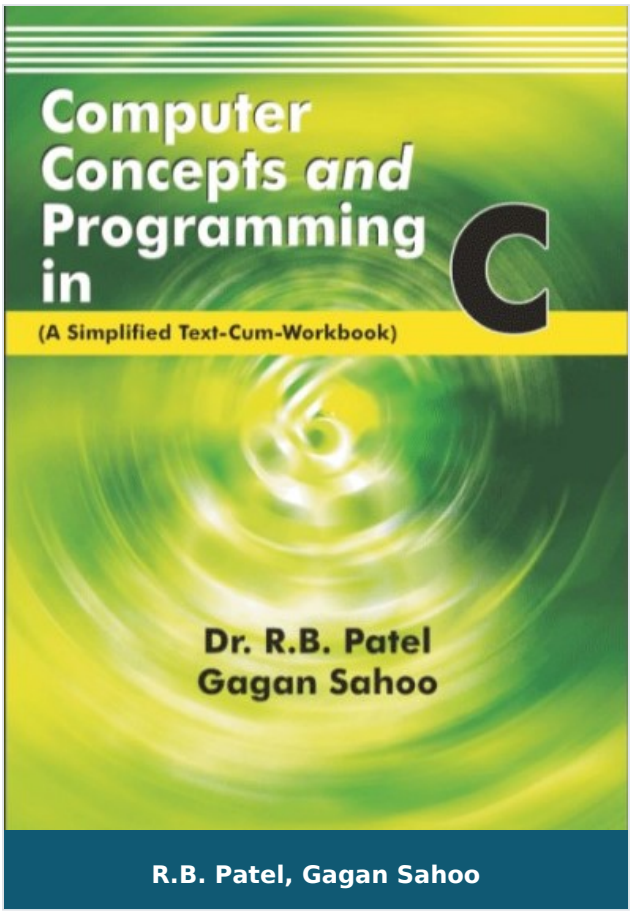

Computer Concepts and Programming in C

Author :	R.B. Patel, Gagan Sahoo
ISBN 13 :	978-81-90744-80-5
ISBN 10 :	8190744801
E-ISBN 13 :	978-81-90744-80-5
Edition :	1
Pages :	552
Type of book :	Physical
Year :	2009
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 325.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

The book is written and designed keeping in mind following objectives for the students to understand the basic concepts of computing, to understand the basic concepts of operating system and number systems, to understand the methodology of problem solving, to develop skill in programming using C language. Cover detailed theory supplemented with appropriate figures and examples. Step-by-step instructions for doing practical training purpose. solved and unsolved examples at the end of each chapter. Provides proper testing tools for better learning. Provides user friendly approach.

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- Conditional Program Execution
- Program loops and iteration
- Characters I/O Functions
- Arrays and Strings
- C Standard Library Function
- User defined functions
- Structures
- Pointers
- Linked lists and stacks
- C processor derivates
- File operations in C

Author

R.B. Patel

R.B. Patel Prof. Ram Bahadur Patel, Professor, Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, U. T. Administration Chandigarh, earlier he was Professor at NIT Uttarakhand, graduated from Madan Mohan Malaviya Engineering College Gorakhpur in Computer Engineering in the year 1991. He

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did M.S. from BITS Pilani in the year 1996. He obtained his Ph.D. from the Indian Institute of Technology, Roorkee in the field of Distributed Computing and PDF in Reliable Computing from Athens Greece in the year 2005. He has supervised 18 PhD thesis and 42 M. Tech. dissertation. He has 4 Patents (1 US and 3 Indian) to his credit. He has published more than 190 research paper in International/National Journals and Conferences. He has organized 7 International Conferences/Seminars. He has edited 5 Scopus indexed Journal/Proceedings of National and International publishers, viz. Springer Verlag, American Institute of Physics etc. He has authored 7 Books on Data Structures, Automata Theory, etc.

Gagan Sahoo

Gagan Sahoo This well -organized and comprehensive book offers a detailed coverage on Visual Basic Programming concept. It contains a rich collection of examples, exercises and project based concepts. This book concentrates on the principles of good software engineering and stresses program clarity. without assuming and background knowlwdge of programming, this book teaches VB language using carefully graded approach. The book covers easy-to understand steps, from simple programs to sophisticated ones that demonstrate VBs power for programming development. Using this book you can create different application statring from desktop application; database Handling to Internet based programming. The book contains 100's source codes in different chapters in CD. He has more that 15 Years of experience in the computer field working as a software developer, director of software development. He is a well-known author of various computer books including, VB, C++, Java. Since last 10 years, he has lots of experience in different computer project works. He has written number of project books including Foxpro, C, C++, Vb, etc. He associates Mr. Arvind Kumar working as co-author in various technical projects in .NET technology. He has been Programming in various .NET project and tested so many code on Microsoft's .NET environment. His prime development of Beginner's Guide to VB, C# 2005 (with.NET 3.0), ASP.NET, VB.NET, etc. Which was written

to fullfil the need and development guide for the students and developers.

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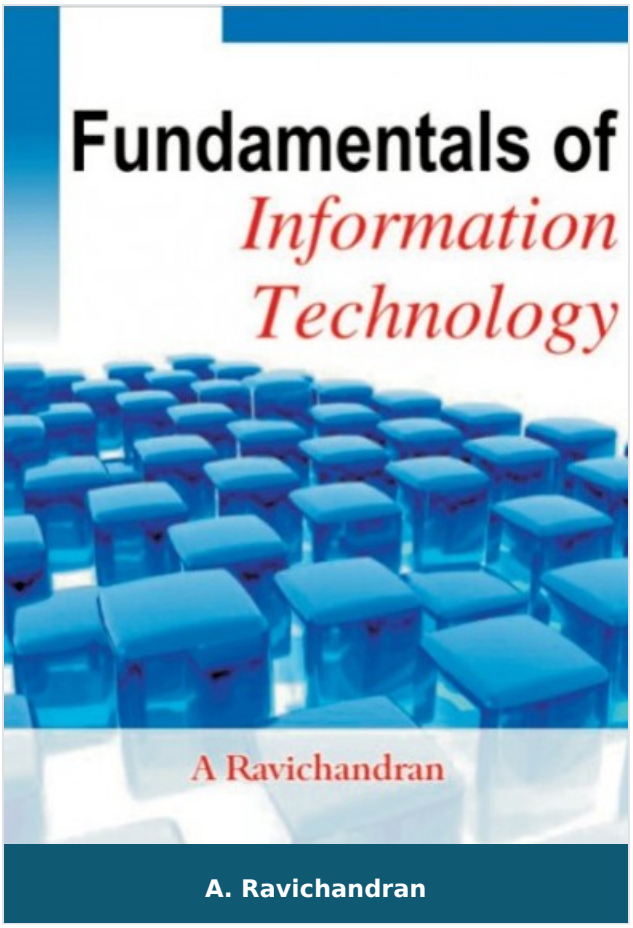

A. Ravichandran

Fundamentals of Information Technology

Author :	A. Ravichandran
ISBN 13 :	978-93-80016-34-4
ISBN 10 :	9380016344
E-ISBN 13 :	978-93-80016-34-4
Edition :	1
Pages :	664
Type of book :	Physical
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

This book Covers all the important aspects of computers, their growth, usage and abilities. Each topic has has fully covered to explain their developments and future usage. This book would serve the base for the learning process for all the students of computers and information technology. Starting with students of schools, to colleges, to the universities, or whosoever who wants to have more information about the subject. 20th century has seen the development of information technology to the fullest. This field is changing at such a fast speed that it becomes impossible to keep track of the developments taking place throughout the world. This book in one of the such book which keeps you informed about the development which has taken place and are now on the verge of capturing the market, specially, mobile computing, Geo Information system, knowledge database system, etc.

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- New Technologies
- Use of Computers in various Industries
- Introduction to Tally 9.0

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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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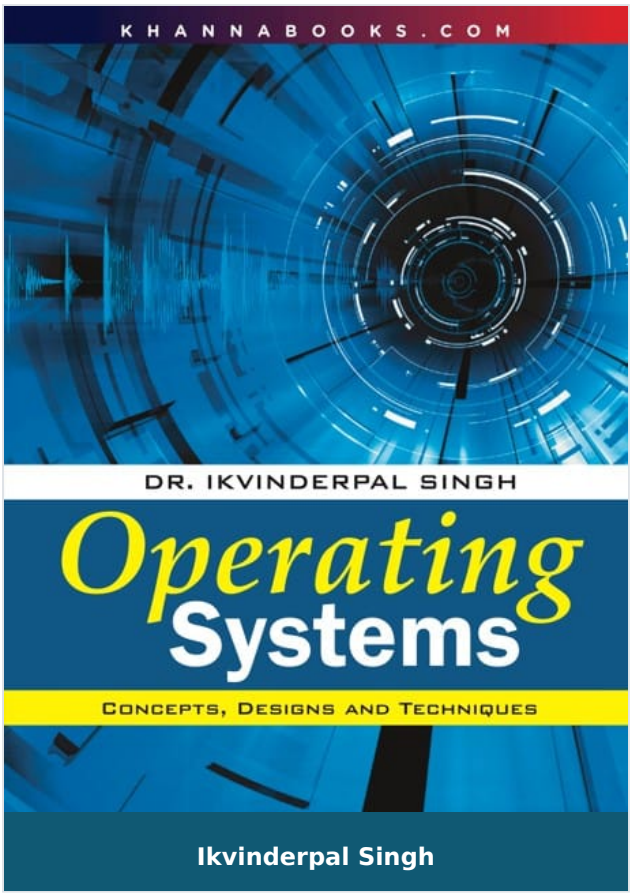

Operating Systems

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-81068-72-4
ISBN 10 :	9381068720
E-ISBN 13 :	978-93-81068-72-4
Edition :	1
Pages :	672
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 798.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Fundamental concepts are introduced in simple terms, Numerous examples are included to illustrate concepts and techniques. The sequence of topics is well planned to provide a seamless transition from design to implementation. With each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. Case studies are organized in a lucid manner. The exercises can be found at the end each chapter. Other sections are devoted to advanced topics, e.g. deadlock characterization, process synchronization and scheduling in multiprocessor systems, file sharing semantics, file system reliability and capabilities.

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- Virtual Memory
- Input/Output and Device Management
- Disk Management
- File Management
- Protection And Security
- Distributed Systems
- Case Studies Of Unix And Windows NT

Author

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

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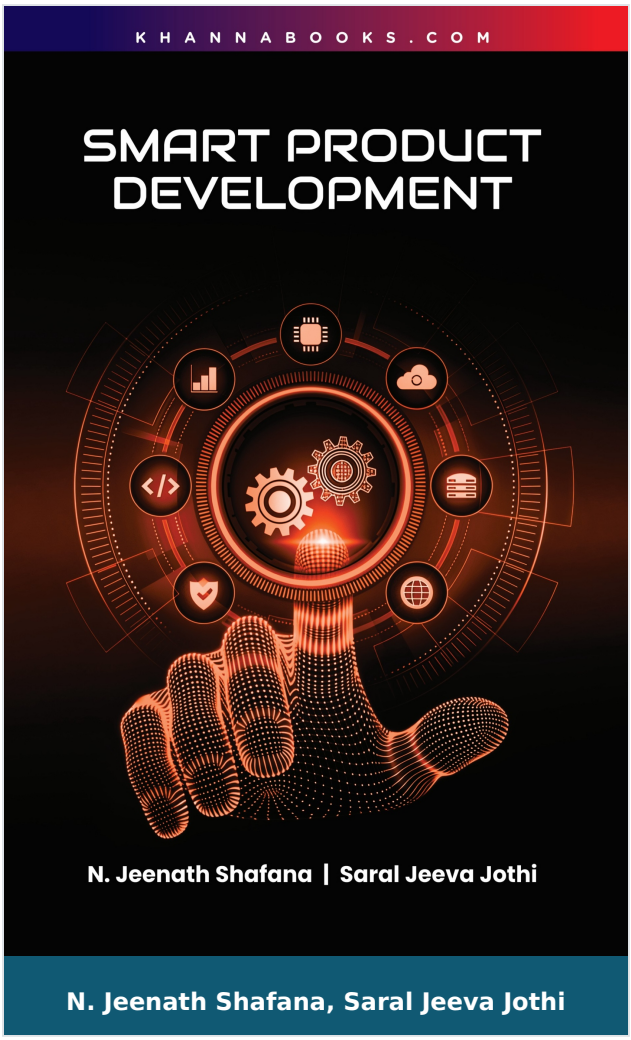

Smart Product Development

Author :	N. Jeenath Shafana, Saral Jeeva Jothi
ISBN 13 :	978-93-55384-34-8
ISBN 10 :	9355384343
E-ISBN 13 :	978-93-55384-34-8
Edition :	First
Pages :	132
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 198.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

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Product Description

This book is an indispensable resource for navigating the rapidly evolving landscape of smart technologies, where the integration of sensors and smart systems is pivotal for advancing functionality across a wide range of industries. Titled SMART PRODUCT DEVELOPMENT, this comprehensive guide is designed to equip its target audience—students, engineers, professionals, and technology enthusiasts—with the foundational knowledge and practical skills needed to master the complexities of modern connected devices.

The core purpose is to provide a deep, structured understanding of sensor devices—the eyes, ears, and nervous system of modern technology—their diverse applications, and their essential interfacing with Microcontroller Units (MCUs). The text begins by introducing fundamental sensor types, including piezoresistive, capacitive, and resonant sensors, detailing their design and real-world use in applications from wearable tech to autonomous vehicles.

Moving beyond hardware, the book thoroughly explores signal conditioning, digital conversion, and advanced control techniques such as state machines, fuzzy logic, and neural networks, showing how to integrate sensors into larger, reliable systems. Critical sections are dedicated to communication protocols (including wireless networks, RF sensing, and automotive standards) and the vital role of IEEE 1451 standards in ensuring system interoperability. Finally, the book connects theory to practice by examining real-world use cases in creating Smart Cities, covering applications in agriculture, health, disaster prevention, and water management, alongside the challenges of implementing AI and IoT at scale. This blend of theory, practical knowledge, and case studies makes it a crucial resource for aspiring engineers and industry experts.

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• Sensor Fundamentals: Provides comprehensive foundational insights into diverse sensor technologies, covering principles, classifications (active/passive), and detailed working mechanisms for types like piezoresistive and capacitive sensors.

• Microcontroller Interfacing: Focuses on how sensor data is processed, amplified, and conditioned for use, emphasizing Digital Conversion and the essential design considerations for effective MCU control in embedded systems.

• Advanced Control Logic: Explores modern automation and system behavior control using state machines, Fuzzy Logic systems for nuanced decision-making, and sensor control via Neural Networks.

• Communication Protocols: Deep dive into crucial standards for smart sensor connectivity, including wireless networks (Wi-Fi, Zigbee, Bluetooth), RF sensing, Telemetry, and specialized Automotive Protocols.

• Industry Standards: Details the architecture and benefits of the IEEE 1451 standards for smart sensors, ensuring necessary compatibility and interoperability between devices, control systems, and embedded technologies.

• IoT Case Studies: Presents transformative, real-world applications within the Smart Cities paradigm, covering sectors like smart agriculture, health, disaster prevention, and advanced water/waste management.

• AI/ML Integration: Discusses the challenges and solutions for developing AI and IoT systems at scale, covering predictive analytics, data quality, and the ethical considerations necessary for smart product success.

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- Interfacing Sensor Information and MCU
- Control Techniques Standards
- Communication for Smart Sensors
- Smart Cities Uses Case

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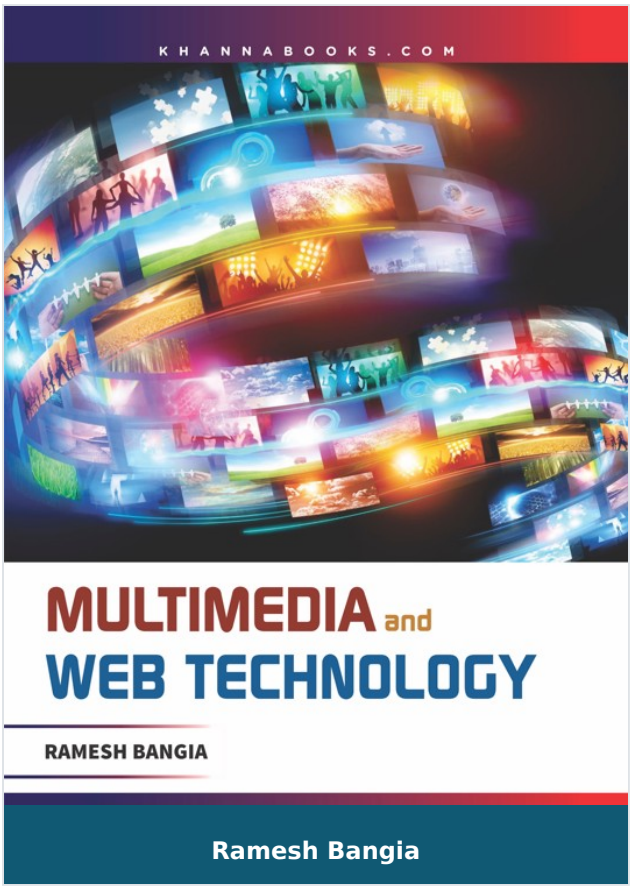

Multimedia & Web Technology

Author :	Ramesh Bangia
ISBN 13 :	978-93-81068-30-4
ISBN 10 :	9381068305
E-ISBN 13 :	978-93-81068-30-4
Edition :	3
Pages :	520
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 750.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

Learning of a software in both easy and difficult. It depends upon what level you are planning to learn. If you are learning only for the working use, then it is very easy. But when you try to go deep into it, then you realise how difficult it is to master it. Internet is such a vast subject that it will take a lot of time to understand it fully. The book has been written in mind to make you aware of the options available and how they can be used. It is like telling the child about the step and stairs. You are the one who is to climb the stair. This book will just guide you how to use the stairs. Suggestion's for Improvement of the book are indeed welcome.

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Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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