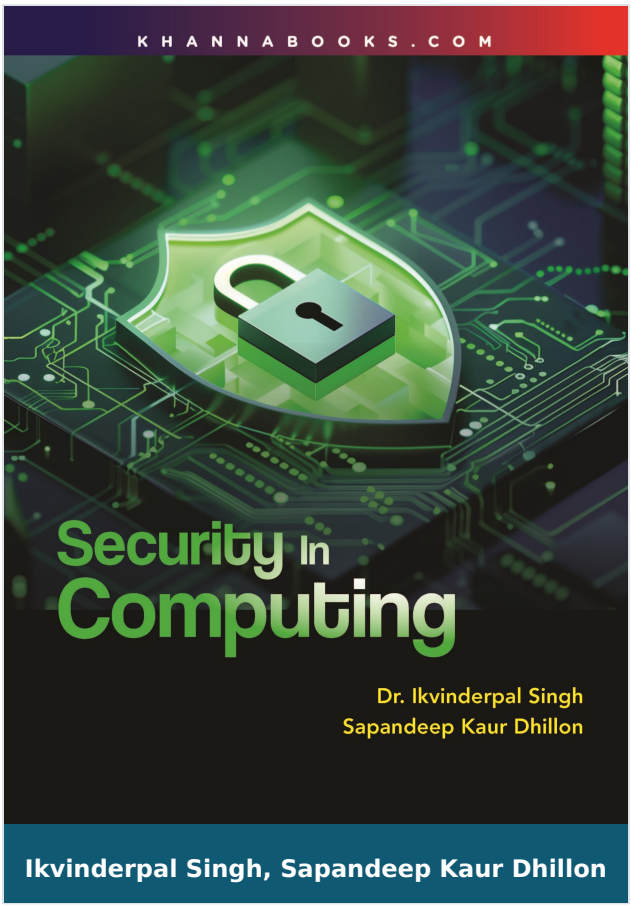

Security In Computing

Author :	Ikvinderpal Singh, Sapandeep Kaur Dhillon
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Product Description

Security In Computing

This book provides a systematic study of computing security, covering digital systems, operating systems, network, and databases, it helps readers apply security principles across different layers to protect data and resources from both internal and external threats. The text begins with fundamental concepts like authentication, auditing, and least privilege, while examining modern risks such as identity theft and nation-state adversaries.

Subsequent chapters focus on operating system security, detailing trust models, access control, and verifiable models like Bell-Lapadula and Biba. It also explores secure kernels, virtual machines, and the Android operation system. The network security section addresses DNS vulnerabilities, malware, firewalls, and privacy tools like VPNs and onion routing.

Finally, the book covers database security, including encryption, data masking, and SQL injection detection, supported by a MySQL case study. By emphasizing defense-in-depth and real-world relevance, this work is an essential resource for both academic learning and professional development.

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- Digital systems security and privacy
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- Operating system security
- Verifiable security goals
- Network security
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- Database security
- Security features in Databases
- Exercises

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

Sapandeep Kaur Dhillon

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers

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across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

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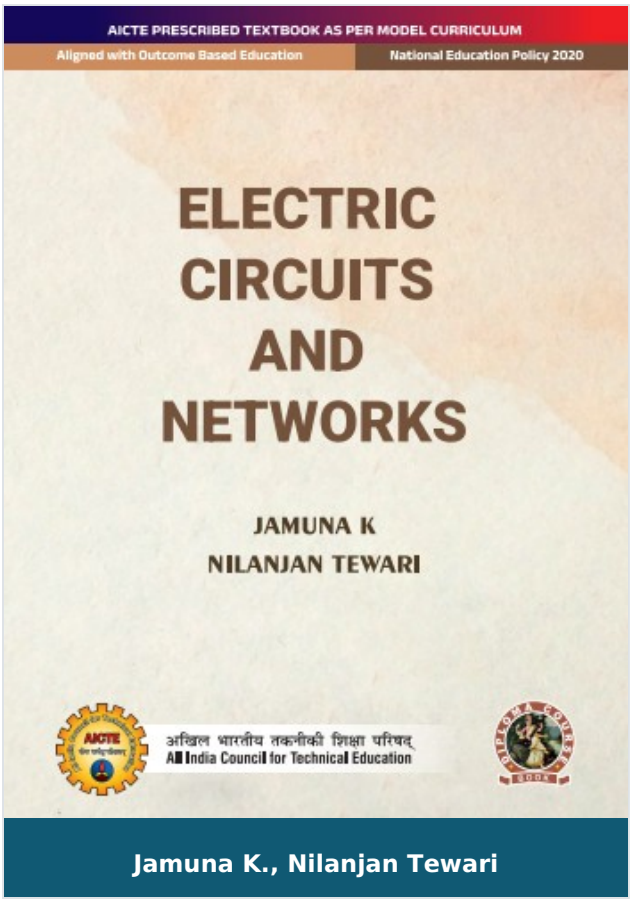

Electric Circuits and Networks

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Product Description

Electric Circuits and Networks

Electric circuits and networks is the fundamental and essential subject for circuit branches in engineering. The book introduces the concepts of single-phase ac circuits and its analysis, generation of the three-phase power supply, star/delta connected three-phase systems operating under balanced and unbalanced loading conditions. Transient response of first and seconder order electric circuits are included in time domain analysis as well as in LaPlace analysis. Two port network parameters and relationship among those parameters are explained. At the end all the chapters, problems are solved using LTspice software for the purpose of practical classes. The major areas covered in this book are

- Phasor and its representation
- Steady state analysis of single-phase ac circuits
- Power and power factor calculations for single-phase ac circuits
- Resonance in series and parallel circuits
- Source transformation
- Single-phase ac circuits analysis: Node analysis and mesh analysis
- Single-phase ac circuits theorems: Thevenin/Norton/Maximum power transfer
- Duality of the electric circuits
- Voltage and current relations for star/Delta connected three-phase systems
- Power and power factor calculations for three-phase ac systems
- Transient response of ac circuits of first and second order ac circuits
- Laplace transform solution of first and second order ac circuits
- Graph theory concepts of electric circuits
- Tie-set analysis and cut-set analysis of electric circuits
- Two-port networks and parameters

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- Transient Response of First and Second Order Electric Circuits
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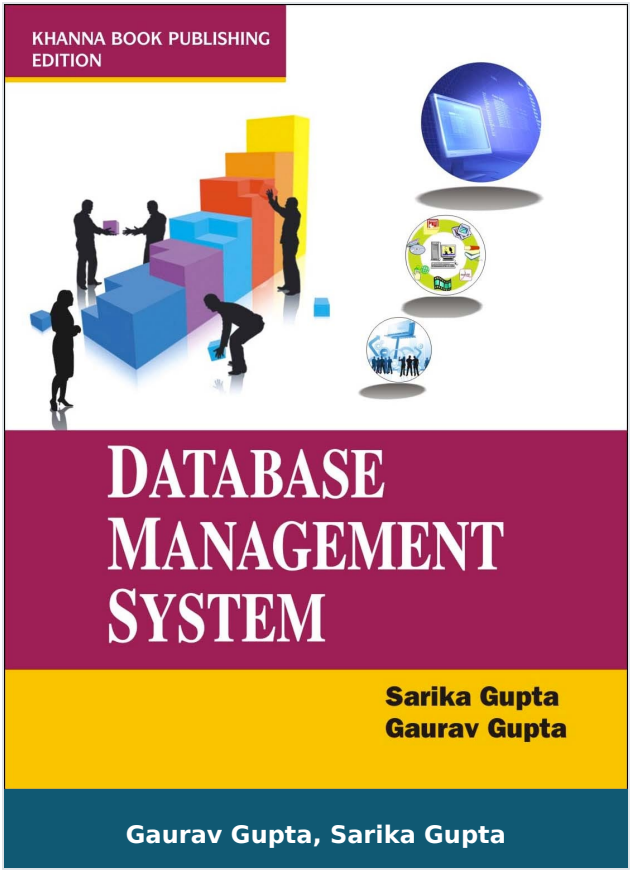

Database Management Systems

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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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- Lab Guide
- Objective Type Questions of DBMS and PL/SQL
- Introduction to My SQL and Oracle
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- Previous Year asked Questions with Solutions
- Previous Year Questions Papers
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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.

Sarika Gupta

Sarika Gupta Sarika Gupta is currently working as Assistant Professor in the Department of Computer Science and Engineering at Dronacharya College of Engineering, Greater Noida. She has more than six years of teaching and corporate experience. She has already published Research Papers in various international Journals and conferences of repute. Her area of interest and research includes AdHoc Network, Java, Object Oriented System and Soft Computing etc.

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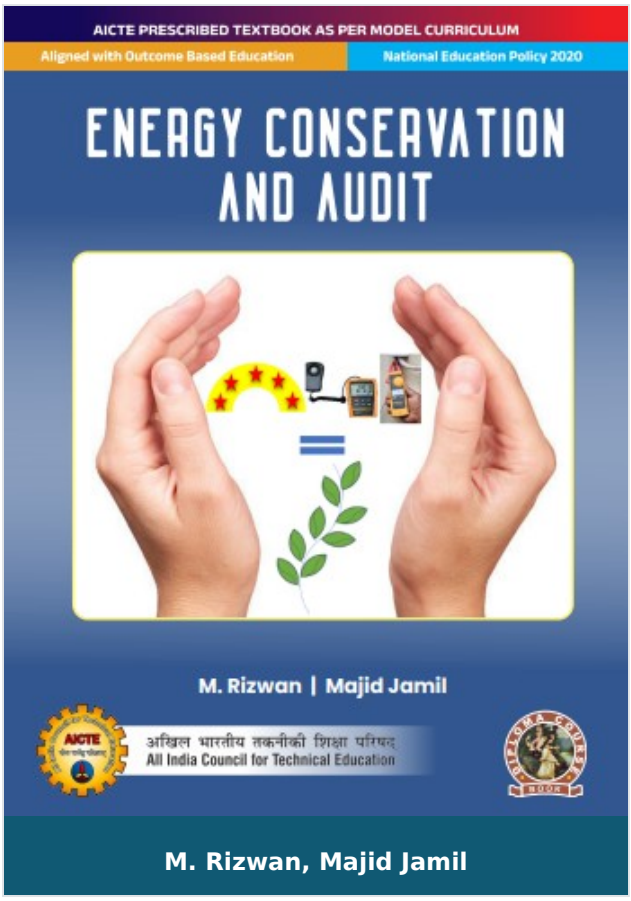

Energy Conservation and Audit

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Product Description

Energy Conservation and Audit

This book explains the concept of energy conservation and audit in simple language and students' friendly manner. The book is designed to cater the needs of diploma Engineering students seeking a hand on approach in the area of energy conservation, energy audit and energy management. The book comprises of give units that includes energy conservation basics, energy conservation in electrical machines, energy conservation in electrical installation systems, energy conservation through co-generation and tariff and energy audit of electricals system.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.

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- Energy Audit of electrical system
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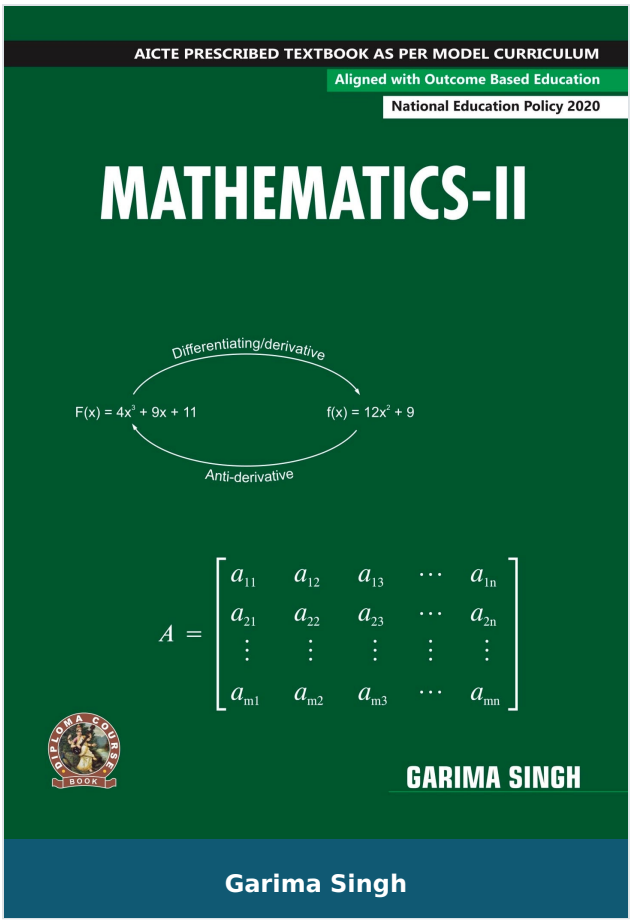

Mathematics II

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Product Description

“Mathematics-ll” is a Compulsory paper for the first year students of Diploma engineering courses (common to all branches). Syllabus of this book is strictly aligned to the model curriculum of AICTE. And academic content is amalgamated with the concept of outcome based education. Apart from diploma it is useful for all students who are interested in basic /elementary mathematics and competitive examinations.

Book covers seven topics- Determinants, Matrices, Integral Calculus and it’s applications. Co-ordinate Geometry and it’s applications, vectors and it’s applications, Differential equations. Basic of MATLAB.

Each topic is written in an easy and lucid manner with a holistic view. There has been deliberated attempt to keep the number of pages in the book minimum without compromising with the matter. Every chapter contains a set of exercises at the end of each unit to test the student’s comprehension.

Some salient features of the book:

1. For direct recapitulation of main concepts, formulae and results a brief summary of each unit has been given.

2. Objective questions and subjective questions are given for practice of students after every unit.

3. Content of the book is aligned with the mapping of Course Outcomes, Programs Outcomes and uni Outcomes.

4. Apart from the theory explanation and solved examples book provides for mini projects, activities, fun facts, QR codes, case studies, video resources etc.

5. The text has been supplemented with notes, remarks, remember sections within grey boxes.

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6. Student and teacher centric subject materials are included in the book in a balanced manner.

7. Real life applications are inserted to improve clarity of this topics.

8. Know more section has been introduced which constitutes of additional information related to the topic.

9. Check-out section has been introduced so as to active the curiosity part of the student by correlating all the topics studied in this book with MATLAB.

10. At the end of each unit. An excerpt related to eminent Indian Mathematicians is given so as to make .

11. Student have a glimpse of the rich Indian heritage, especially in the field of mathematics.

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- Co-ordinate Geometry
- Vector Algebra
- Differential Equations
- Appendices & Annexures

Author

Garima Singh

Garima Singh

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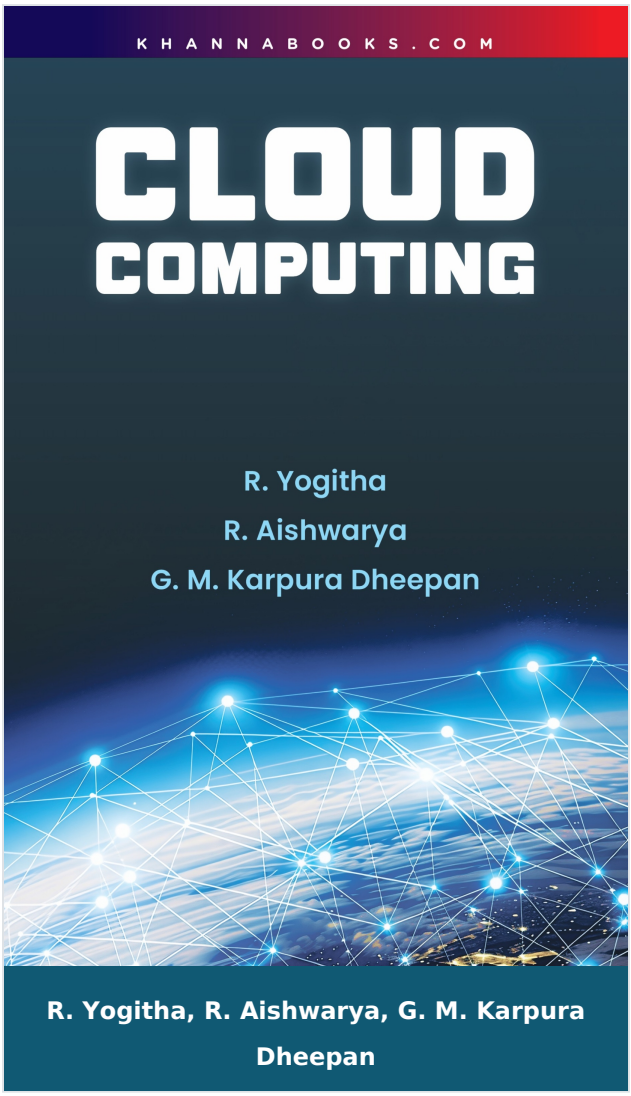

Cloud Computing

Author :	R. Yogitha, R. Aishwarya, G. M. Karpura Dheepan
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Condition Type :	New
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Product Description

Cloud Computing

This comprehensive textbook provides a structured and authoritative introduction to Cloud Computing. guiding readers from foundational principles to advanced real-world applications. It serves as an essential resource urce for students, IT professionals, and researchers seeking to master the technologies that power modem digital infrastructure The book clearly outlines the origins and essential characteristics of cloud environments, such as Rapid Elasticity, Broad Network Access, and Measured Service, setting the stage for deep dives into implementation. It thoroughly examines the cloud infrastructure, covering foundational technologies like data center components, power efficiency metrics (PUE), and the multi-level implementation ofvirtualization across CPU, Memory, and I/O. A significant portion is dedicated to cloud architecture, detailing the fundamental service models (SaaS, PaaS, laaS) and various deployment models (Public, Private, Hybrid). Finally, a major focus is placed on cloud security, detailing the CIA Triad, Zero Trust principles, and modem DevSecOps practices crucial for designing and deploying secure cloud software. By covering these core concepts and modern storage systems (Object. NoSQL Databases), this book delivers both the academic knowledge and the practical value needed to confidently design, manage, and secure scalable cloud solutions.

Salient Features:

- **Core Cloud Characteristics**: The book meticulously details the defining aspects of cloud computing, such as Rapid Elasticity, Meaaured Service. and On-demand Seli service, contrasting them with traditional IT models for a clear understanding of cloud value
- **Advanced Infrastructure**: Features an in-depth exploration of data center design, including.crucial topics like calculating Power Usage Effectiveness (PUE) and

implementing robust power redundancy configurations (N+1, 2N forhigh for high reliability

- **Multi-Level Virtualization**: Explains the foundational role of virtualization by detalling the implementation levels across CPU, Memory, and I/D, including hypervisor types and the mechanics of creating virtual machines
- **Cloud Security Focus:** Provides dedicated coverage of Cloud Computing Software Security. focusing on the CIA Triad (Confidentiality, Integrity, Availability), Zero Trust principles, and legal compliance requirements.
- **Secure Development Practices**: Highlights the adoption of modem security methods like DevSecOps and Secure Development Practices to integrate security into the CI/CD pipeline and mitigate risks from the requirements phase onwards.
- **Comprehensive Service Models**: Offers a detailed comparative analysis of the three fundamental service models-laaS, Paas, and Saas complete with their respective features, benefits, and roies within various cloud architecture
- **Modern Cloud Storage**: Delves Inte scalable data management, covering distributod file systems (HDFS, Ceph FS), NoSOL doud databases (MongoDB, Dynamo DB), and industry-leading Object Storage solutions (Amazon 53, Ceph).

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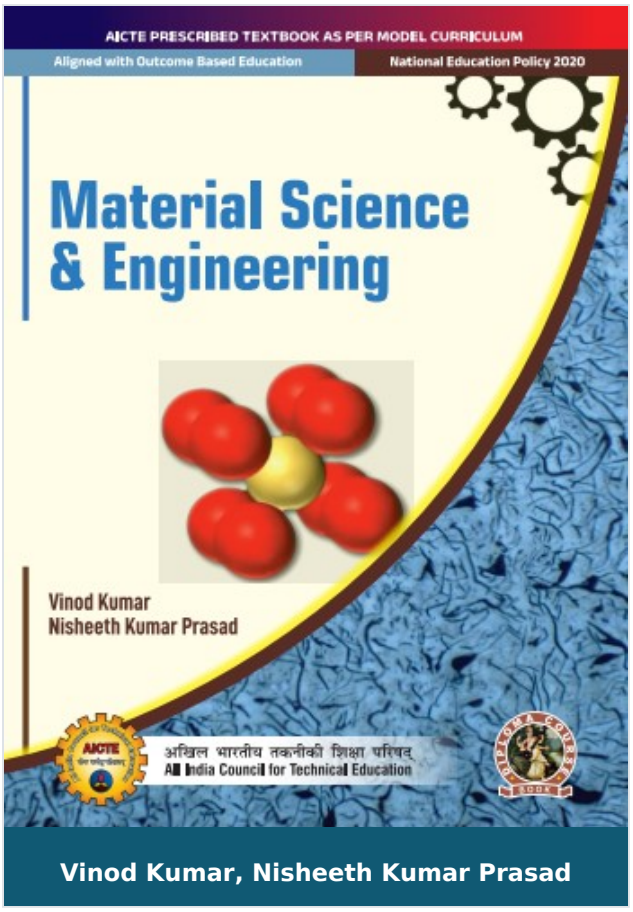

Material Science & Engineering

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Product Description

Material Science & Engineering

This comprehensive textbook meticulously navigates through the foundational principles of atomic structures, phase diagrams, materials properties of ferrous and non-ferrous alloys, failure analysis and various materials testing methods, and surface engineering of metallic materials.

Key contribution from India in various section of material engineering has also been included at appropriate place to provide due credit to our Indian knowledge system. Every chapter includes not only the summary at the end of the chapter, but also relevant exercise problems to understand and explore the complex integration of materials, their behavior under diverse conditions, and the methodologies shaping their design and industrial utilization. Finally, this book will equip students with the knowledg4e of material science and engineering who will be tomorrow’s engineers, and backbone of our industries.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.

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- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Failure Analysis and Testing of Materials.
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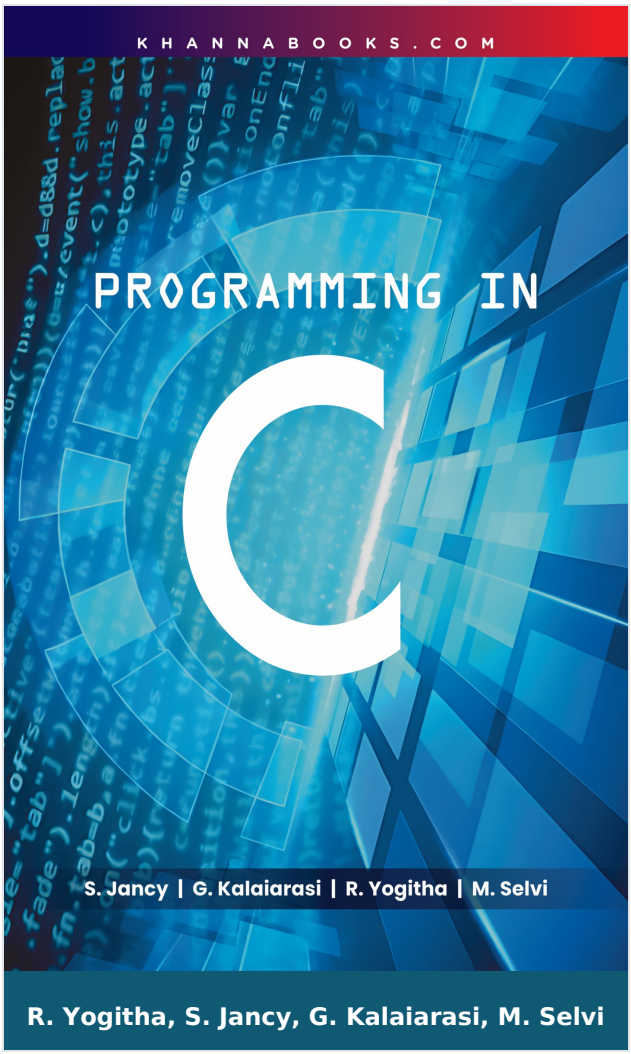

Programming in C

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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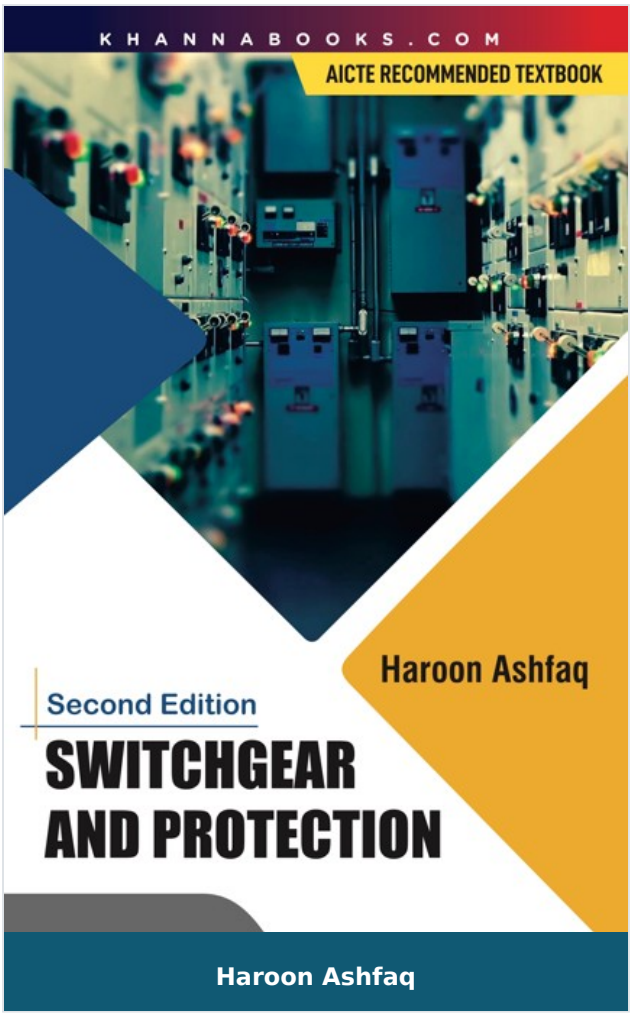

Switchgear and Protection

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Product Description

This book is intended to serve as a textbook for course 'switchgear and protection' for B. Tech/B.E. Degree students of Electrical Engineering. It will also serve as a text reference for the students of diploma in electrical engineering. The common topics included in the syllabi of almost all engineering institutions in India are covered in this book.

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- Generator and Motor Protection
- Transmission Line and Busbar Protection
- System Neutral Grounding
- Over voltage Protection
- Circuit Breaking
- Circuit Breakers

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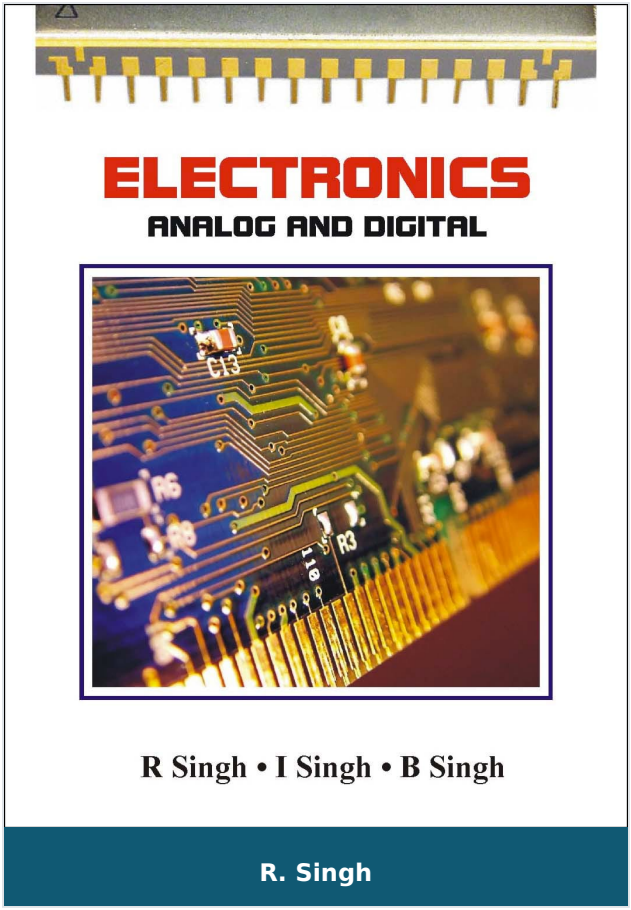

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Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of electronics. Its approach is explanatory and language is lucid and communicable. Analog and digital electronics described with the help of its circuit designs, pictorial representation and implementation to have clear ideas. Modern aspects of electronics have been introduce from the first principles and discussed in an easy manner so that a beginner can grasp the analog and digital electronics. Each chapter contains solved example problems and exercise problems.

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