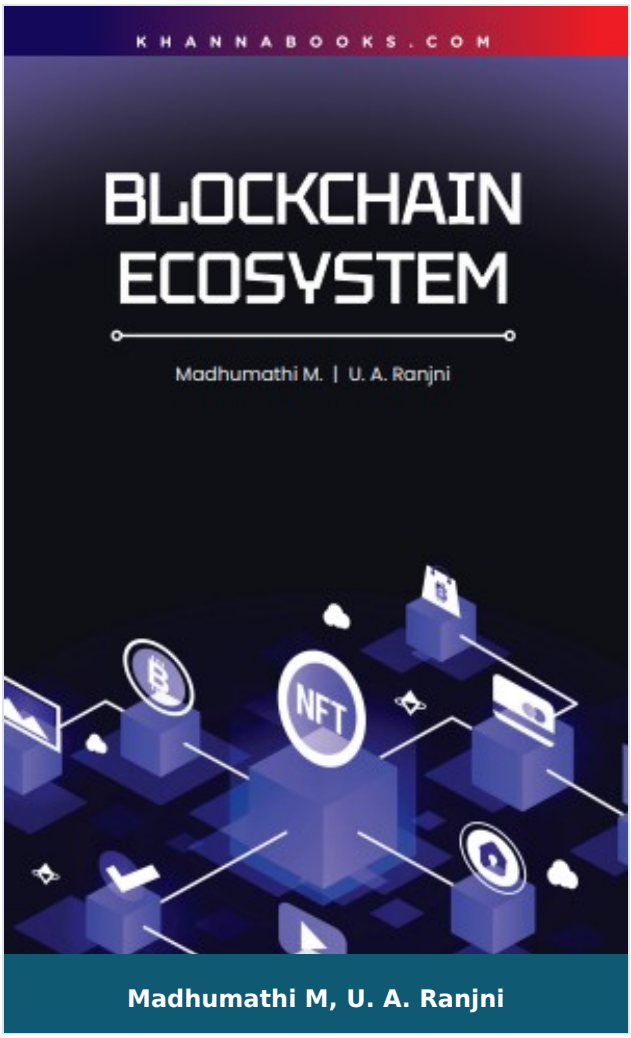


Madhumathi M, U. A. Ranjni

Blockchain Ecosystem

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Product Description

Blockchain Ecosystem

BLOCKCHAIN ECOSYSTEM is a comprehensive and essential guide to the transformative technology underpinning the decentralized digital future. This book explores blockchain not just as a technology for secure, transparent, and immutable record-keeping, but as a foundational innovation reshaping entire industries, from finance and supply chains to healthcare and governance. It introduces readers to a new paradigm of trust and value exchange that operates without reliance on central authorities or intermediaries.

Authored with clarity and academic rigor, the text systematically breaks down the intricate and interconnected nature of the blockchain ecosystem. It begins by establishing the fundamental network architecture, contrasting it with conventional distributed databases, and delves into the mechanics of key consensus algorithms like Proof-of-Work (PoW) and Proof-of-Stake (PoS). The book then traces the evolution of the technology across Blockchain 1.0, 2.0, and 3.0, illustrating the shift from basic digital currency to complex decentralized applications (dApps) and enterprise-grade scalability solutions.

Crucially, this guide provides practical, hands-on knowledge, including a deep dive into Smart Contracts using Solidity, detailing their lifecycle, creation, and deployment, alongside frontend connection methods. It also critically examines the significant security risks (e.g., Reentrancy, 51% attacks) and performance challenges (e.g., scalability, interoperability) inherent in blockchain deployment.

Whether you are a student seeking foundational knowledge, an entrepreneur building the next decentralized application, a developer aiming for secure Solidity implementation, or a policymaker navigating regulatory complexities, this book is an indispensable resource for understanding the complexities, opportunities, and future directions of the blockchain revolution.

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Salient Features:

- **Core Network Fundamentals:** Presents a detailed comparison of blockchain with conventional distributed databases, explaining fundamental principles like decentralization, immutability, security, and cryptographic hashing.
- **Mechanism Comparison**: In-depth coverage of various consensus models, detailing the trade-offs between energy-intensive Proof-of-Work (PoW) and the more sustainable Proof-of-Stake (PoS) and BFT protocols.
- **Blockchain Generation Study**: Systematically analyzes the evolution from Blockchain 1.0 (Digital Currency) to 2.0 (Smart Contracts/dApps), concluding with 3.0 (Scalability/Interoperability) and enterprise-grade solutions.
- **Practical Smart Contracts**: Provides step-by-step guidance on writing, deploying, and connecting decentralized applications (Dapps) to a frontend using Solidity, Hardhat, and Next.js.
- **Security Risks Analysis**: Dedicated chapters dissect major security issues, including the 51% Attack, smart contract vulnerabilities (like Reentrancy), Sybil attacks, and common EVM bytecode flaws.
- **Solidity Code Vulnerabilities**: Highlights programming pitfalls specific to the Ethereum development language Solidity, such as gas optimization issues, access control flaws, and the challenges of contract upgradability.
- **Advanced Scalability Solutions**: Explores techniques to overcome network performance limitations like low TPS and high fees, focusing on Sharding, Sidechains, Off-Chain State Channels, and concurrent transaction processing.
- I**ndustry 4.0 Applications**: Details the promising real-world application of blockchain in Industry 4.0 (M2M communication) and Health 4.0, discussing both opportunities and inherent integration challenges.

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Table Of Contents

- Network and Security
- Blockchain security issues
- Smart contracts
- Performance related issues
- Challenges in Blockchain

Author

Madhumathi M

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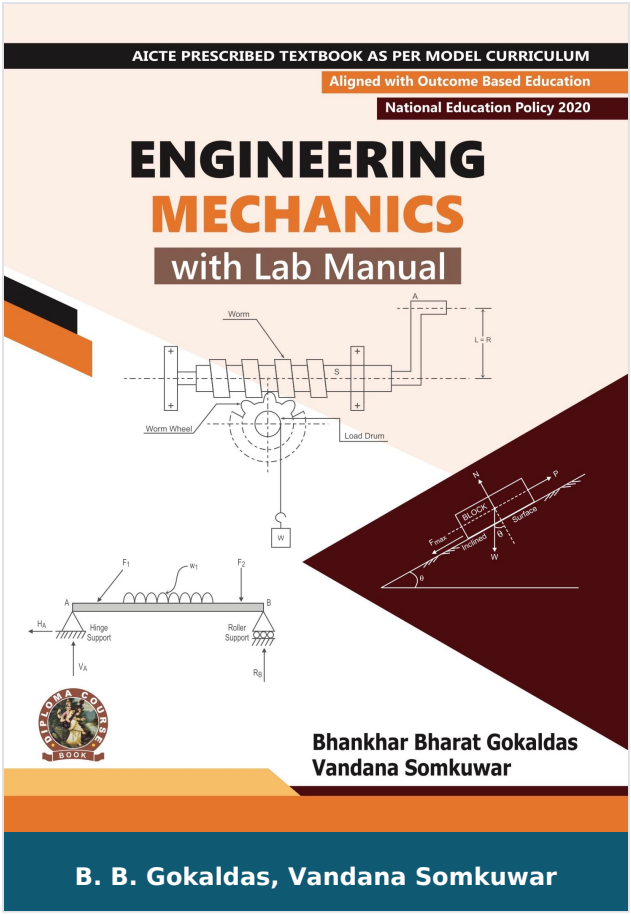
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Engineering Mechanics (with Lab Manual)

Author :	B. B. Gokaldas, Vandana Somkuwar
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Product Description

“Engineering Mechanics with Lab Manual”is a compulsory for the first year Diploma course in Engineering 7 Technology. Syllabus of this book is strictly align as per model curriculum of AICTE and academic content is amalgamate with the concept of Outcome based Education (OBE).

Book covers is five units- Basic mechanics & force system, Equilibrium, Friction, Centroid and Centre of gravity & simple lifting machine. Each unit written in every easy, systematic and orderly manner. Each unit contains a set of exercise at the end of each unit to test the student’s comprehension. Also in each unit the laboratory practical pertaining to unit is included.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.

3. Student and teacher centric subject materials included in book with balanced and chronological manner.

4. Figures, tables, equations and activities are insert to improve clarity of the topics.

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

6. Solved and unsolved problems including numerical examples taken with systematic steps.

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Table Of Contents

- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students,
- Basic of Mechanics and Force System
- Equilibrium
- Friction
- Centroid and Centre of Gravity
- Centroid and Centre of Gravity
- Appendix
- Index

Author

B. B. Gokaldas

B. B. Gokaldas B. G. Gokaldas

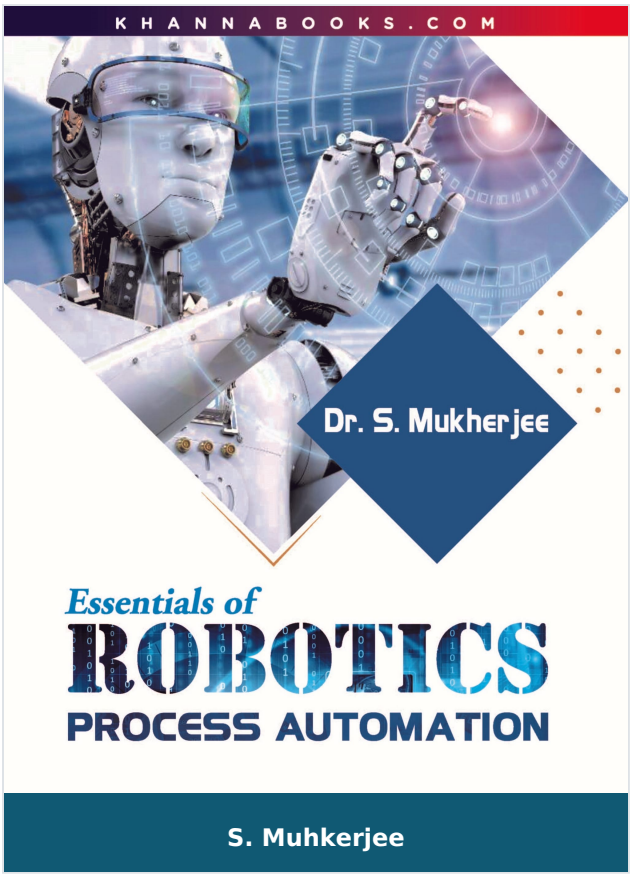
Vandana Somkuwar

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Essentials of Robotics Process Automation

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Product Description

This Robotics Process Automation book describes the RPA platform for the future of business process automation. More precisely this RPA book has tried to innumerate the followings:

1. RPA that brings speed to your digital transformation.

2. RPA helps to get rid of resource burden and it's consequences.

3. This emphasizes Business process automation must be in the hands frontline.

4. Only Automation Anywhere Enterprise combines consumer-like usability with enterprise-class reliability, and security for RPA that empowers the workforce to automate on their own, in real time.

5. What does RPA mean for business?

Optimize labor investment

Increase capacity on demand

Increase speed and productivity

Maximize availability

Improve business process compliance

Improve controls

Improve auditability

Enhance security

deliver business intelligence

Enable digital transformation

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Improve employee morale

6. Putting RPA to work and deploy your digital workforce in your businesses like insurance, finance, manufacturing and health care and also other.

Deploy, manage and audit your Digital Workforce through a highly-intuitive RPA central command center, on-premise or in the cloud.

This RPA book also enable you to learn more about AI and machine language also factory automation, safeguard your data, analyze old predict business performance, streamline your blended anywhere, big data ready for analytics.

This book is made for BS/B,TECH and MS/M.TECH/MCA/MBA student who will have in-depth knowledge about RPA and its associated technologies falls in the same platform.

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Table Of Contents

- Robotics Process Automation
- Robot Gripper Process
- Drives and control system
- Kinematics
- Robot Actuation and Hardware Interface
- Robotics Process Automation Impacts on Business
- Case Study (List of Practicals)
- RPA Interview (Questions and Answers)

Author

S. Muhkerjee

S. Muhkerjee Dr. Santosh Mukherjee is at present working as Chief Architect cum Chief Scientist and President of Santech International Inc.(San-Lab). Dr. Santosh Mukherjee is an young, award winning, widely proclaimed energetic and emerging Technologist & Scientist, who is one of the pioneer in the Technology fields of Digital technology focus-sing in Telecommunication/Nanotechnology, and Power/Medical Tech specializes in convergence connectivity, with 30 yrs professional experiences with Fortune 100 USA organization as Senior VP Innovation and Chief Scientists. Having experience to work as academia with the best Universities of USA, having qualification of D.Sc and PhD in the relevant field of interest. He has many patents approved by USGOV and also few are in the process. He is joint patent holder of many patents, during his service career with the Above companies He has published four similar kinds of technological books. He is associated with IEEE, World Bank , American Management Association, NJTC, Asian Development Bank, Member of Indian Govt. Tech Diaspora and Knowledge Commission.

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Recipients of the award, "Best Technologist & Emerging Scientist of the Year 2003" from Chair person of Science and Tech Commission, USA in the Capitol Hill, but it Washington His leadership also include in accomplishing to develop an NRI Complex in India of American. He is “Technical Advisor “ of Federal Commission of USA of “ Science & Technology “ and “Energy” from 2010 .

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Blockchain and Cryptocurrency

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Product Description

The world is undergoing a massive paradigm shift in how we manage trust, data, and digital value. BLOCKCHAIN AND CRYPTOCURRENCY offers a comprehensive and accessible journey into the heart of this technological revolution, moving beyond the hype of market trends to explore the foundational principles of decentralized systems. Written with a holistic approach, this book breaks down the intricate mechanics of blockchain technology—including consensus algorithms, cryptography, and P2P networking—making them understandable for both curious beginners and aspiring developers.

The text provides a deep dive into the evolution of digital money, from the pioneering launch of Bitcoin to the advanced smart contract capabilities of Ethereum and the burgeoning world of Decentralized Finance (DeFi). Readers will explore real-world applications across diverse sectors such as healthcare, finance, and governance, while gaining critical insights into the ethical, regulatory, and security challenges that face the industry today. Whether you are a student seeking academic clarity or a professional looking to leverage decentralized applications, this book serves as an essential guide to the future of the digital economy.

Salient Features:

• Comprehensive Technical Foundations: Detailed explorations of blockchain architecture, including P2P networking, block structures, and the logical components of decentralized ecosystems.

• Smart Contract Mastery: In-depth coverage of Ethereum and the development of self-executing contracts using Solidity and Javascript to automate complex business logic.

• Cryptocurrency Lifecycle Insights: Clear explanations of the mining process, transaction lifecycles, and the role of wallets and private keys in securing digital assets.

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• Robust Security Analysis: A critical look at security and privacy issues, covering common types of attacks, encryption methods, and strategies for system enhancement.

• Practical Industry Applications: Real-world use cases demonstrate how blockchain transforms sectors like healthcare EHRs, supply chain logistics, and cross-border trade finance.

• Governance and E-Governance: Examination of decentralized governance models and the potential for blockchain to streamline public health tracking and land registries.

• Economic and Ethical Implications: Insightful discussions on the "dark side" of crypto, including scams, money laundering, and the evolving global regulatory landscape.

• Future-Ready Learning: Focus on emerging trends and the transition from traditional centralized institutions to a world where trust is embedded in technology

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Table Of Contents

- Introduction to Blockchain
- Ethereum Basics
- Introduction to Bitcoin
- Fundamentals of Cryptocurrencies
- Security and Privacy Issues of Blockchain Technology

Author

D. Geethanjali

D. Geethanjali

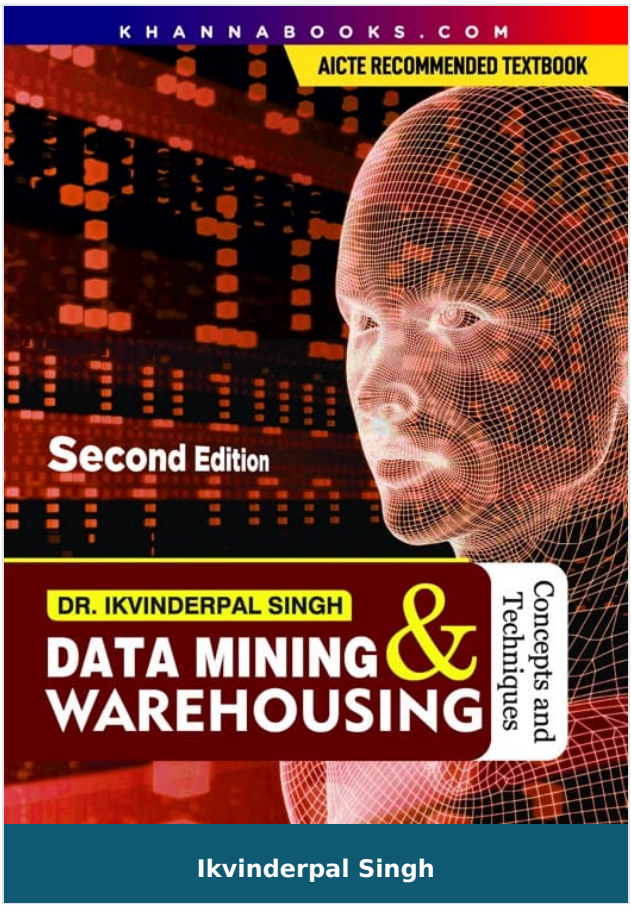
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Data Mining & Warehousing

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Product Description

This book has numerous features that make it a winner, The order of topics is very logical, The choice of topics is quite appropriate for a comprehensive introductory book. The subject matter is logically structured, with chapters covering essential components of the data mining and warehousing field. The sequence of topics is well planned to provide a seamless transition from design to implementation. Within each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. The exercises can be found at the end of each chapter.

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Table Of Contents

- Data Warehousing
- Multidimensional Data Model
- Data Warehousing Architecture
- Online Analytical Processing
- Data Warehouse Implementation
- Data Warehouse Back-End tools And Utilities
- Data Mining
- Applications And Trends In Data Mining

Author

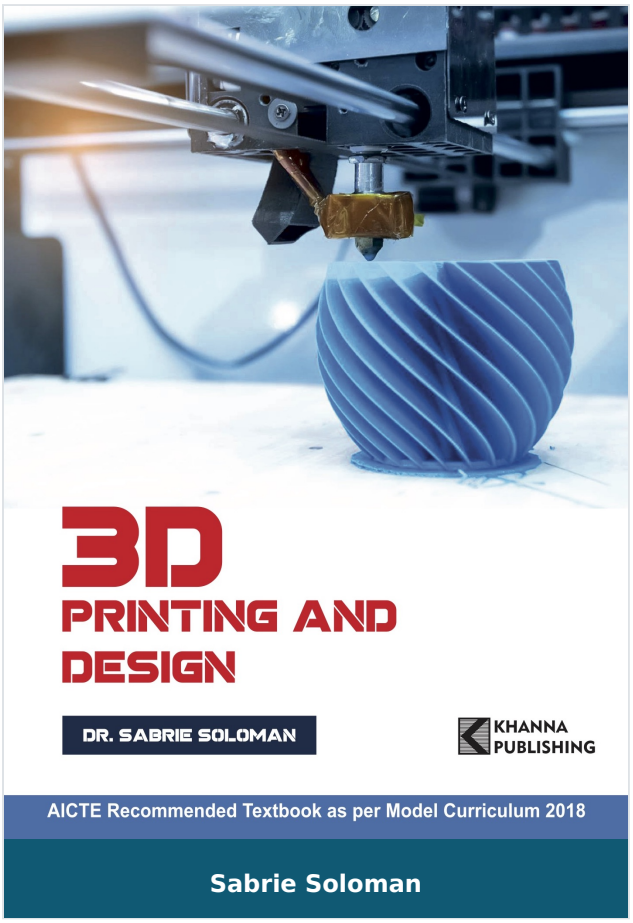
Ikvinderpal Singh

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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3D Printing & Design

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Product Description

This book provides a detailed guide to various 3D printing technologies, explaining their operational principles, similarities, and differences. It offers practical insights into optimal implementation methods, making it an invaluable resource for school students, university undergraduates, and postgraduates. Readers will gain both foundational knowledge and hands-on inspiration to explore their creativity by designing and printing their own innovative models. In addition, educators and professionals will find the content highly relevant, enabling them to effectively apply and advance 3D printing technologies within their institutions or organizations.

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Table Of Contents

- Digital Manufacturing
- Digital Design for 3D Printing
- Fundamentals of Additive Manufacturing
- Design for 3D Printing
- 3D Printing Designing Through Binder Jetting
- Accelerate Design Cycles Design Verification Lowering
- Evolving 3D Printing
- 3D Printing & Design in Healthcare, Food,
- Additive Manufacturing
- The Impact of Additive Manufacturing on the Integral Economy
- References
- Appendix

Author

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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,

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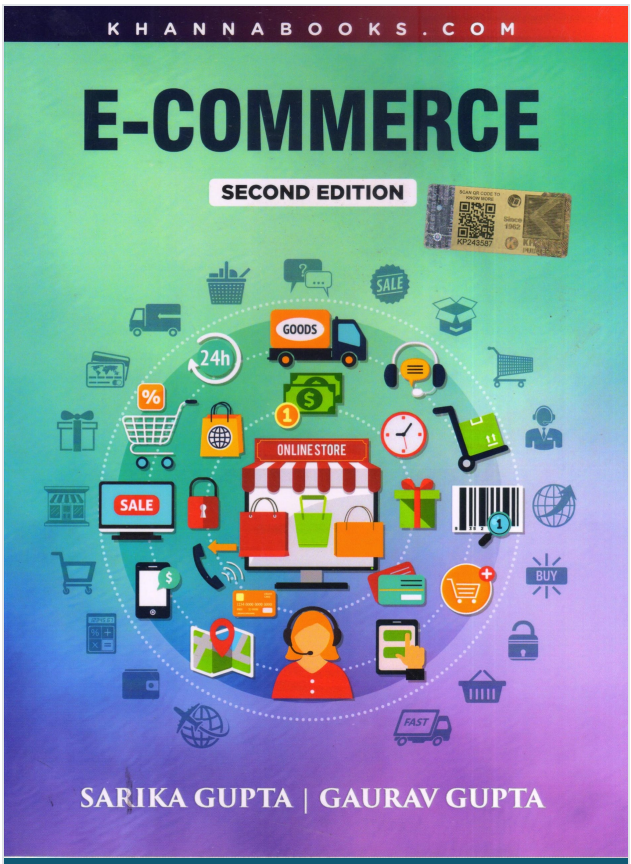
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Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The 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 Conference, New York, USA

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Gaurav Gupta, Sarika Gupta

E-Commerce

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Product Description

Each chapter of the book begins with introduction explaining the need of the contents discussed in the chapter, Figures have been inserted at relevant places to help the reader to understand the concept clearly, Each chapter is followed by the points that provide a helpful way to recap all the topics covered in a chapter, Exercise in the form of Questions is added at the end of each chapter aimed at providing the in-depth understanding of the concepts learned, The end of the book contained solved university asked questions.

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Table Of Contents

- Introduction of E-Commerce
- Network Infrastructure for E-Commerce
- Mobile Commerce
- Security
- Firewalls
- Encryption Techniques
- Virtual Private Network
- Set Protocol
- E-Commerce Applications
- Implementation of E-commerce
- How to Use HTML :Question Bank
- Model Papers
- Previous Question 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 infrastructure, Project Management, Marketing Automation and different enterprise software's, CRM, ERP etc.

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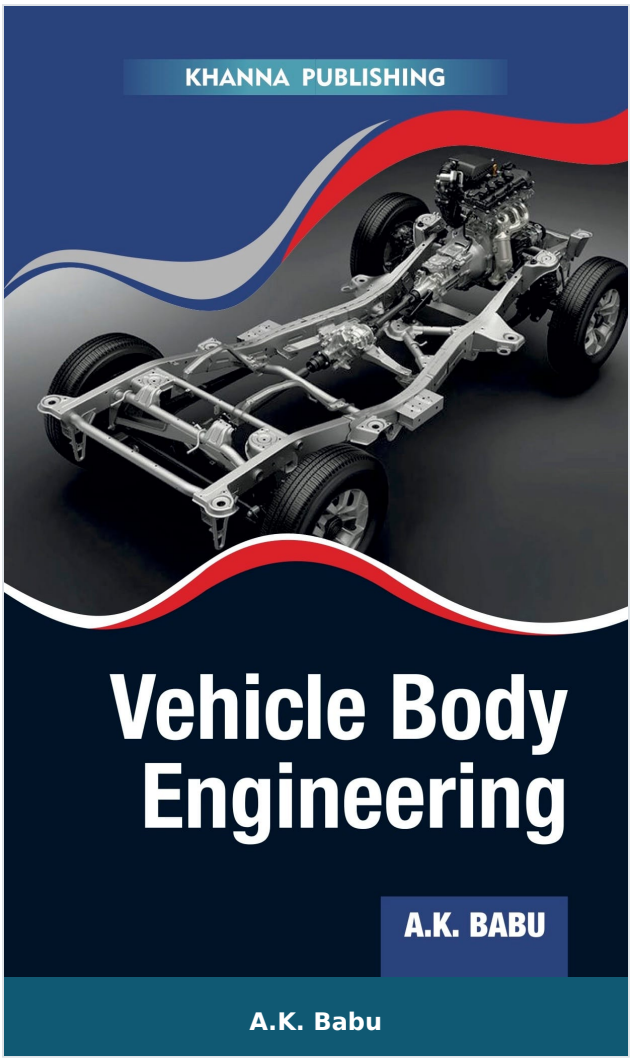
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Vehicle Body Engineering

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Product Description

This book is designed for students undertaking a subject 'Vehicle Body Engineering/Auto Body Engineering' in the undergraduate and postgraduate programme of Automobile Engineering as per the latest revised syllabus of all Indian Universities. The book Provides a clear explanation of vehicle body parts and systems with unique illustrations. Each chapter takes the reader systematically through the details of each type of vehicle body such as car body, bus body, commercial vehicle body, etc. Key topics are emphasized and are reinforced by numerous illustrations. The book should also be a valuable source of information and reference.-

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- Introduction
- Car body Details
- Bus body Details
- Commercial vehicle details
- Vehicle aerodynamics
- Body materials, trim, mechanisms and body repair
- Bibliography
- Index

Author

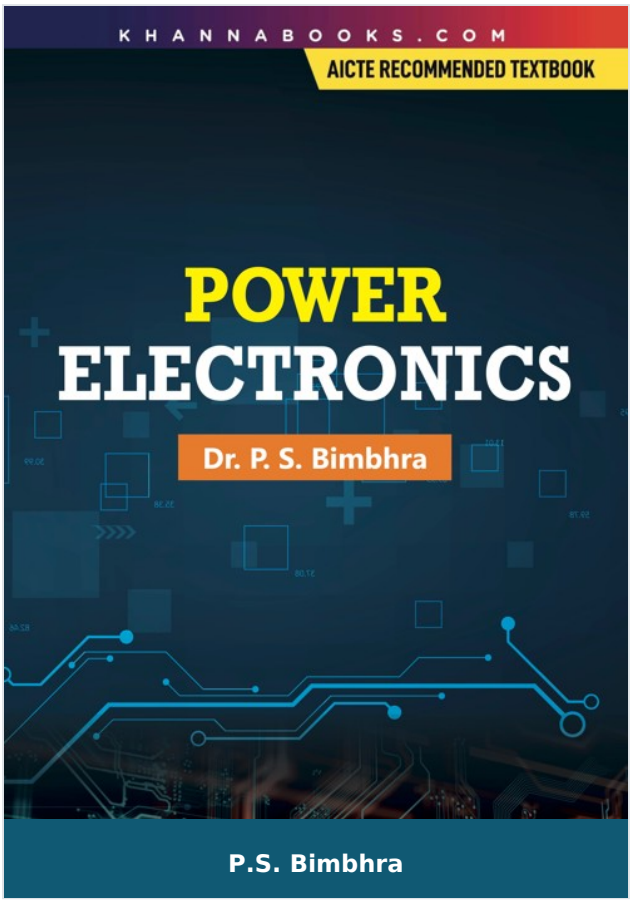
A.K. Babu

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- Diode Rectifiers
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- Thyristors
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- DC Choppers
- Inverters
- AC Voltage Controllers
- Cycloconverters
- Some Applications
- Electric Drives
- Power Factor Improvement
- Switching Mode DC-DC Converters
- Power Supplies
- Flexible AC Transmission Systems
- * Appendix A: Fourier Analysis
- * Appendix B: Laplace Transforms
- * Appendix C: Some Useful Functions
- * Appendix D: References
- * Index

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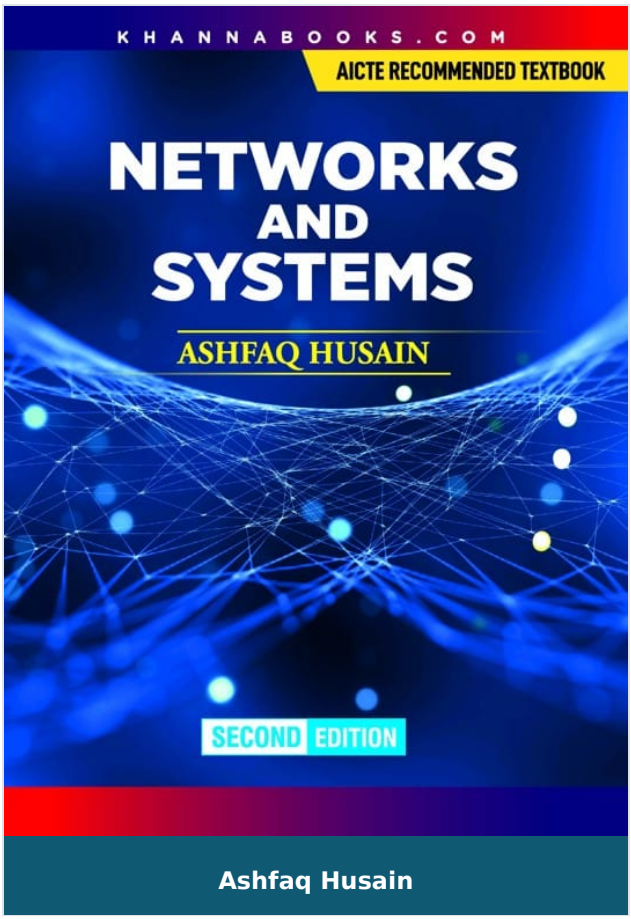
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This book is intended to serve as a textbook for BE., B. Tech, students of Electrical, Electronics, Computer, Instrumentation, Control and communication Engineering. It will also serve as a text reference for the students of diploma in Engineering. AMIE, GATE, UPSC Engineering services, IAS candidate would also find the book extremely useful. Subject matter in each chapter developed systematically from first principles. Written in a very simple language. Simple and clear explanation of concepts. Large number of carefully selected worked examples. Most simplified methods used. Step-by-step procedures given for solving problems. Ideally suited for self-study.

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- Introductory
- Circuit Elements
- Signal Wave forms
- Kirchhoff's Laws and Equivalent Networks
- Sinusoids and Phasors
- Single-Phase Series AC Circuits
- Single-Phase Parallel and Series-Parallel AC Circuits
- Resonance
- Three-Phase Circuits
- Laplace transform Analysis
- Mesh and Nodal Analysis
- Network Theorems
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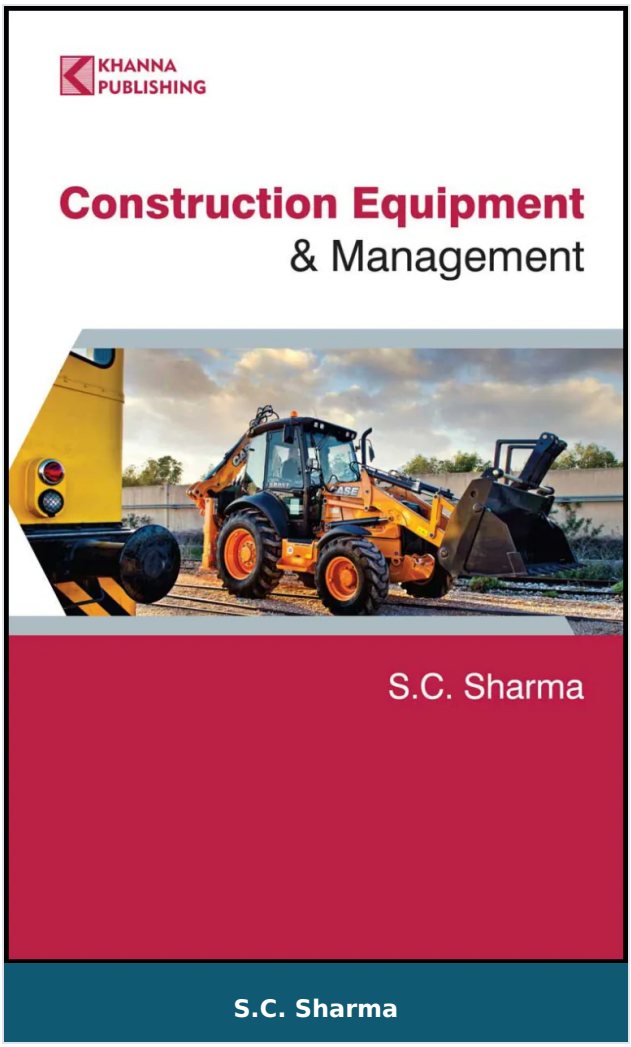
Ashfaq Husain

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Construction Equipment & Management

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- Equipment Management in Construction Projects
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- Earth-Moving Equipment
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- Compaction Equipment
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- Hauling Equipment
- PART -III CONCRETE AND ASPHALT PLANTS
- Aggregate Production
- Concerting Equipment
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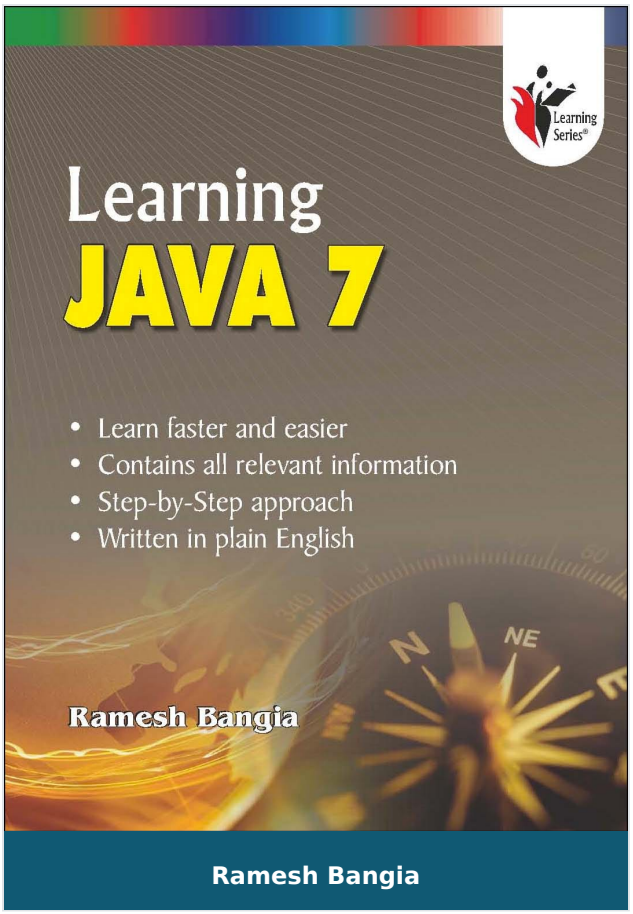
S.C. Sharma

S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

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- JAVA 7 and Android
- Questions

Author

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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