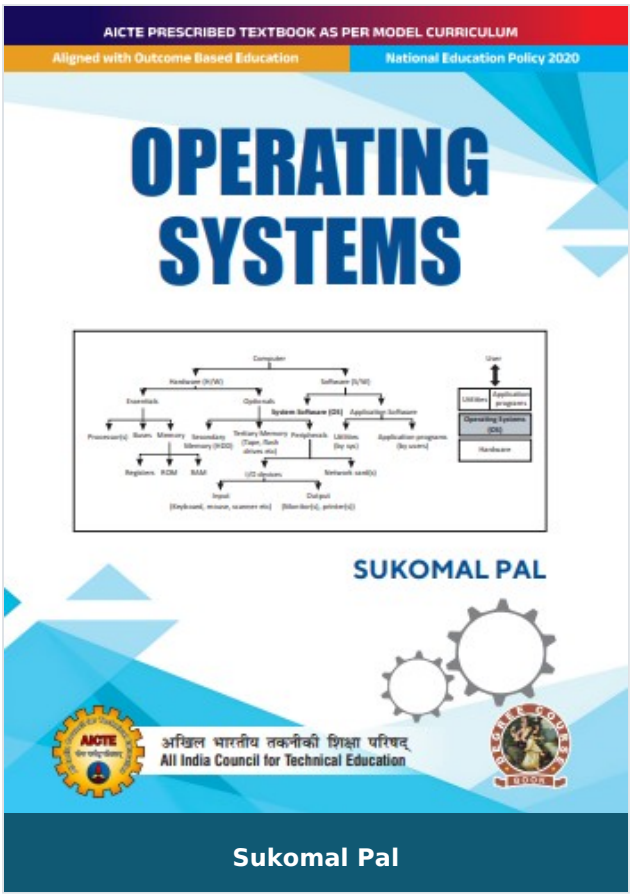


Operating Systems

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Product Description

Operating Systems

This book aims to introduce the undergraduate students to Operating Systems (OS). An operating system acts as an intermediary between the users of different computing systems and the users. The book is written according to the AICTE-prescribed syllabus. Each topic is treated in a lucid and easy manner relating to real life examples and QR code links to supplementary and online materials.

Salient Features:

- Content is aligned with the mapping of Course Outcomes, Program Outcomes and Unit Outcomes.
- Unit prerequisites are mentioned in the beginning of each unit to prepare the students with necessary background.
- The learning outcomes are also listed before starting a unit so that the student understands what (s)he can gain after completing the unit.
- Textual content is complemented by a number of illustrations, images, figures, graphs, tables so that students can grasp the matter well.
- A number of multiple-choice questions as well as questions of short and long answer types following Bloom’s taxonomy and assignments through a number of numerical problems are added to consolidate the learning of a student.
- A list of references and suggested readings are provided at the end of each unit.
- A set of URLs and QR codes are provided in different sections which can be accessed or scanned for relevant supportive knowledge.
- “Know More” section along with a list of suggested readings and references are added at the end of each section for supplementary information to cater to the inquisitiveness and curiosity of the students

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- INTERPROCESS COMMUNICATION and PROCESS SYNCHRONIZATION
- DEADLOCKS
- MEMORY MANAGEMENT
- I/O MANAGEMENT
- REFERENCES AND FURTHER LEARNING
- INDEX

Author

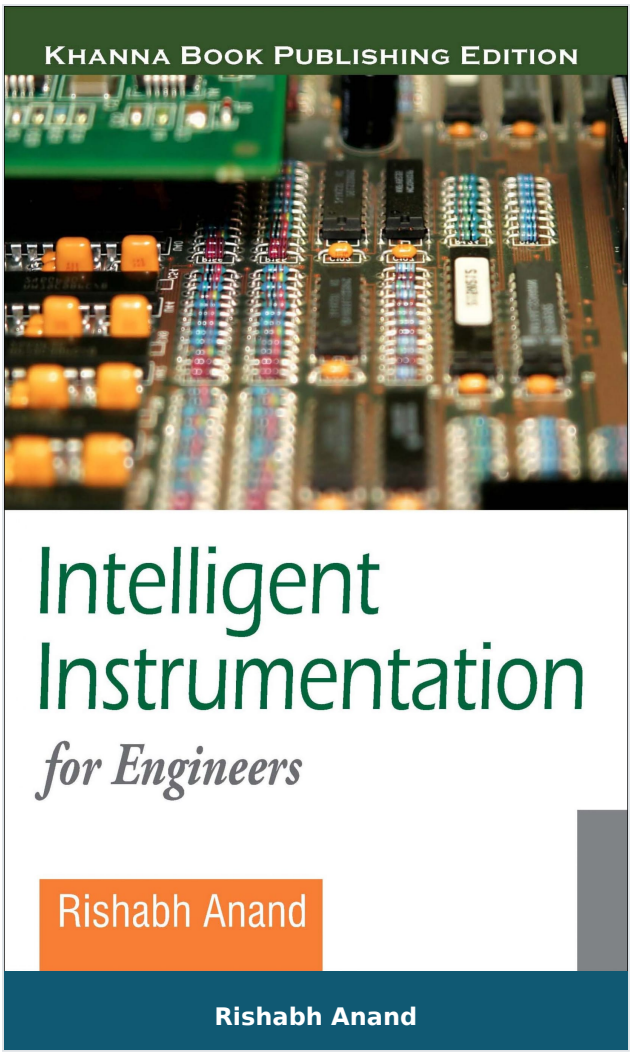
Sukomal Pal

Dr. Sukomal Pal Associate Professor, Department of Computer Science & Engineering IIT (BHU), Varanasi, UP

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Intelligent Instrumentation for Engineers

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Product Description

Covers the complete latest syllabus of intelligent instrumentation for engineers prescribed by M.D.U. Rohtak. Encourages students to use an easy-to-understand system help them think critically about intelligent instrumentation. This book will be a boon to students and will help them to face examination in confident manner. Very lucid and simplified approach to understand the subject. Subject matter in each chapter developed systematically from figures and examples. All topics are explained in an easy manner followed by numerous figures and case studies. Provides user-friendly approach. Model question papers according to latest examination pattern for MDU are added. Review questions are included at the end of each chapter. These exercises allow students additional practice with each of the topics covered in the book.

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- Interfacing Instruments and Computers
- Instrumentation Computer Networks
- Software Filters
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- Appendix B
- Model Test Paper For Practice

Author

Rishabh Anand

Rishabh Anand received his Bachelor's degree B.E (Hons) in Electronics and Communication Engineering from Maharishi Dayanand University, Rohtak in 2006. The author is M.Tech. in Electronics and Communication Engineering from Veer Bahadur Singh Purvanchal University, Jaunpur in 2014, and MBA from Indian Institute of Management, Kozhikode in 2016. The Author is Program Diploma in Innovation Management from International Business Management Institute, Germany (Berlin) in 2020. The author has contributed to research publications in refereed, cited International Conferences and Journals, and attended many conferences, workshops, FDPs, and seminars. Also, he is the reviewer member of IJSDR Journal. He is a prolific author with 34 Text and Reference books to his credit, for B. Tech. (ECE/CSE/IT), M.Tech. (ECE/CSE/IT), BCA, MCA, and other courses of different Universities of India and overseas. His areas of interest include Software Project Management, Cloud Computing, Deep Learning, Tensor Flow, Python, R Programming and Machine Learning. He is currently working in ITES industry as a Global Service Delivery Manager. He is Project Management Professional (PMP)®, ITIL®

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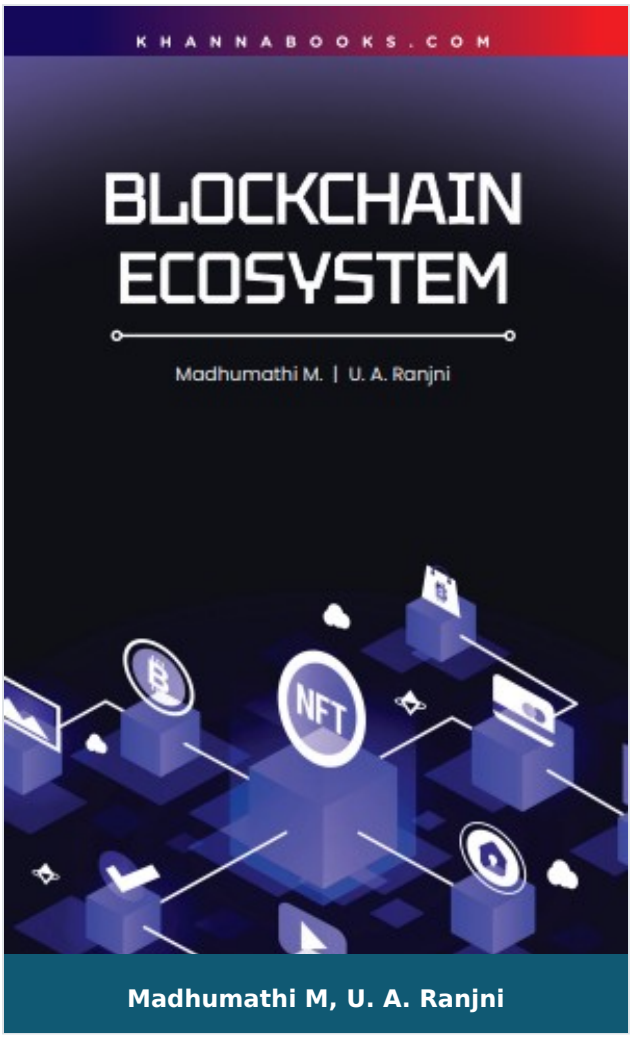
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Madhumathi M, U. A. Ranjni

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

Author

Madhumathi M

Madhumathi M,

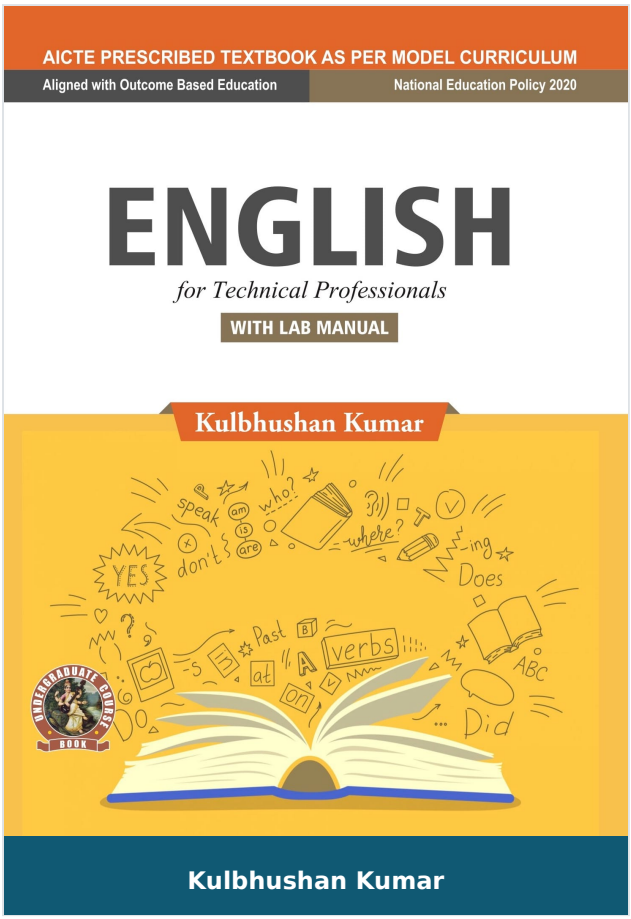
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English (with Lab Manual)

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Product Description

The Book on English in your hand is a textbook intended for the second language learners who wish to learn English but have a less environment in conversing with others in English. The book covers AICTE model curriculum for first year undergraduate degree courses in Engineering and Technology. The book is meant to familiarize the students with different aspects and genres in English including reading, listening comprehension, written and speaking skills. A must-buy for the students of engineering, Management and Humanities, the book combines reference grammar and practices exercises while maintaining a practice- oriented approach. So, to solve the purpose, the book has been divided into six part that highlights:

1. Vocabulary Building

2. Basic written Skills

3. Identifying Common Errors in Writing

4. Nature and style of Sensible Writing

5. Writing Practices

6. Oral Communications

Salient Features:

This book covers a wide range of topic such as conversation practice, vocabulary building , writing practices and sentence Patterns which generates a great taste to its learners. Apart from the core lessons, this course book includes additional reference tools strategies for learning independently, vocabulary trainer and ideas for developing speaking skills. The sole purpose of the book is to empower students with language and life skills the need to carry out to achieve their career goals. A big part of the book is about the vocabulary, with numerous examples. It prepares the learners in Business

English for effective communication not only as students during their collegiate day but also as employees after being employed. It is a complete guide for all business and processional communication activities explaining in simple language how people interact with each other through effective use of spoken and written English. To make the students face the competitive world, each chapter of this book is clearly structured with a strategic approach to learn the target language from the basic level. Therefore, it’s THE BEST book for every technical student who wants to understand how English Works.

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- Vocabulary
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- Basic
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- Identifying
- Common Errors in Writing
- Nature and
- Style of Sensible Writing
- Writing
- Practices
- Oral
- Communication

Author

Kulbhushan Kumar

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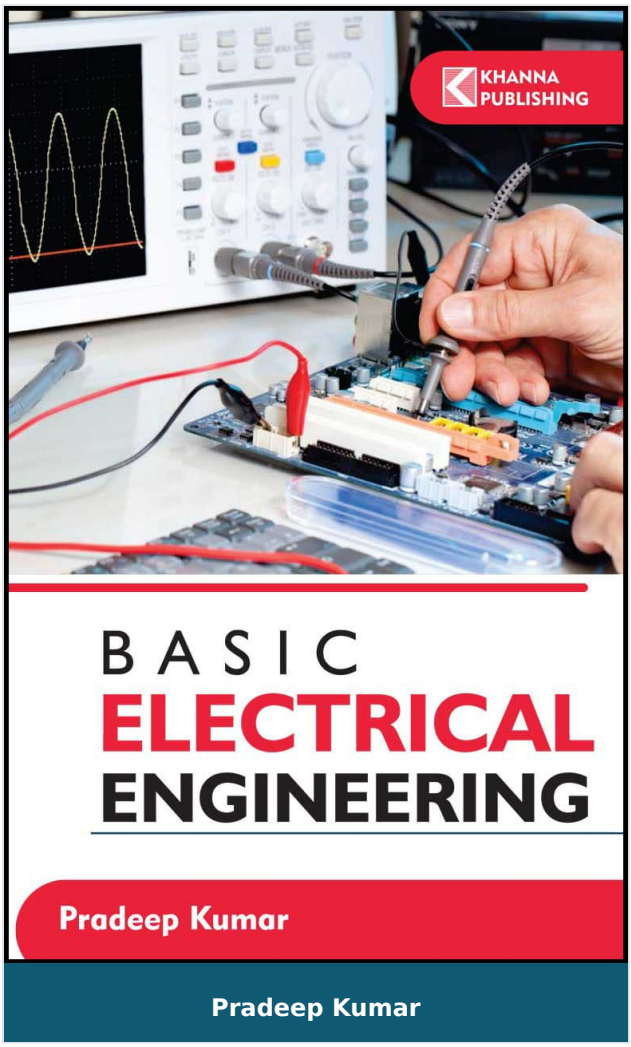
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Basic Electrical Engineering

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Product Description

This book is intended to serve as a textbook for the B. Tech first year students which are common to all branches of engineering of the Uttar Pradesh Technical University (UPTU), Lucknow. This book includes the in-depth knowledge of network theorems, electric machines, and power systems. In this book the basic concepts, principles are clearly explained.

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- Fundamental of Electric Circuits
- Network Theorem
- Steady State Analysis of Single Phase Ac Circuit
- Complex Number
- Three Phase System
- Magnetic Circuits
- Transformers
- Electric Machines
- Measuring Instruments
- Introduction to Power System

Author

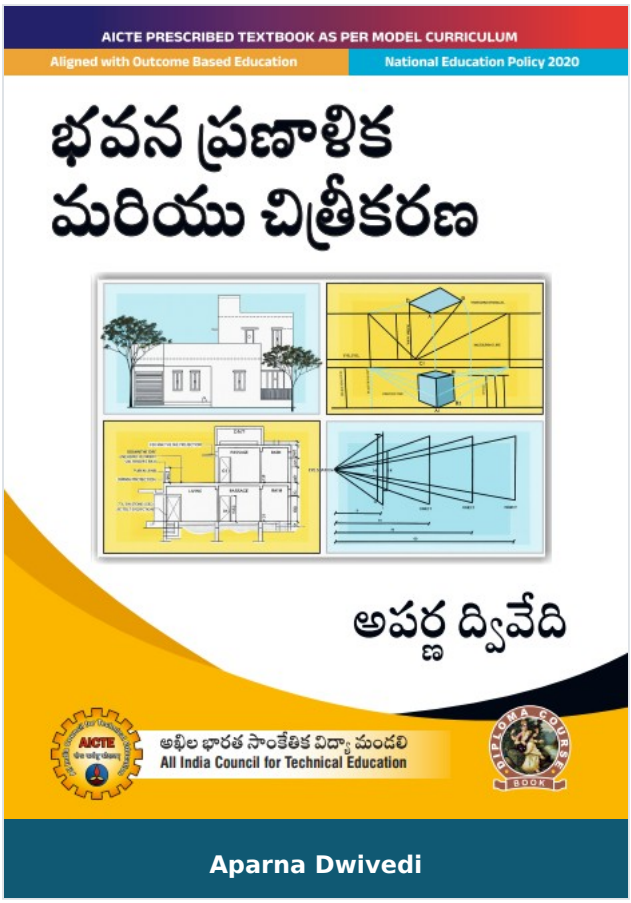
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Pradeep Kumar is presently working as Lecturer in Department of Electrical Enginering at Babu Banarasi Das National Institute of Technology and Management, Lucknow. He did his B.Tech in Electrical Engineering from Uttar Pradesh Technical University, Lucknow. He teaches courses on Electric Machines, Network Analysis and Synthesis, Electromagnetic Field Theory, Basic Electrical Engineering.

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Building Planning and Drawing

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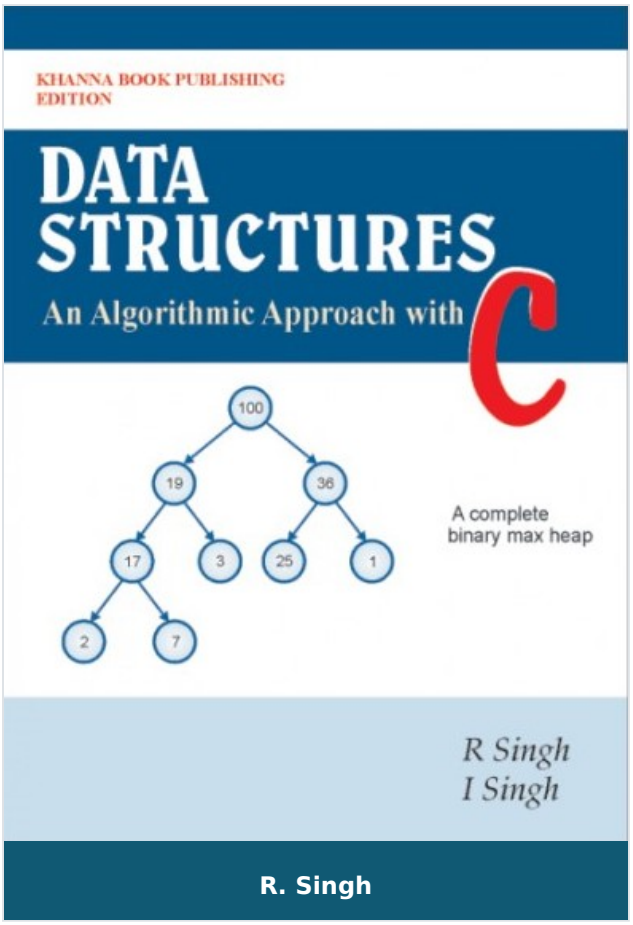
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Dr. Aparna Dwivedi Assistant Professor Sir J.J. College of Architecture Mumbai-400001, Maharashtra

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Data Structures - An Algorithmic Approach with C

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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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- Graphs
- Sorting and Searching Techniques
- Hashing
- File and Storage Management

Author

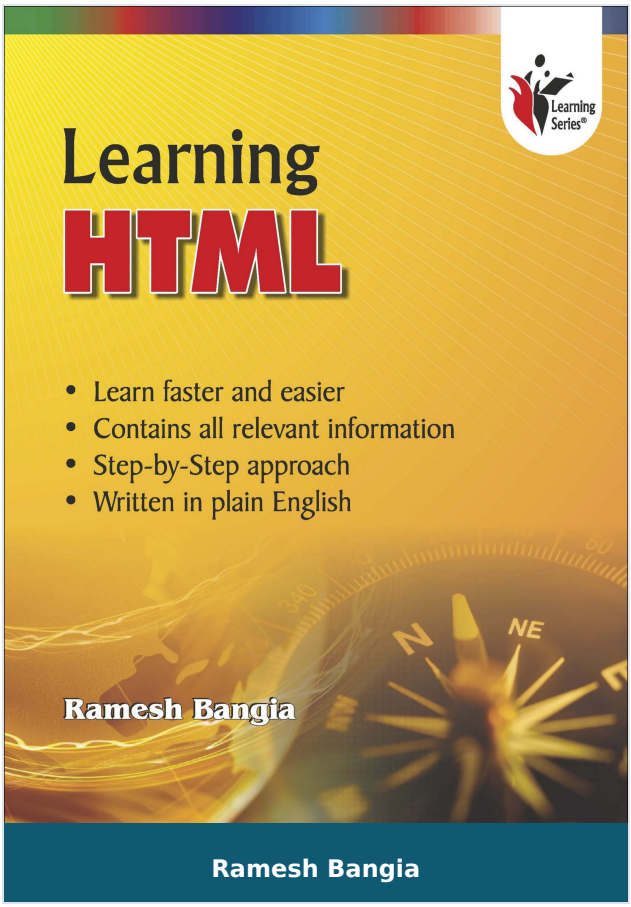
R. Singh

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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Learning HTML

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Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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Author

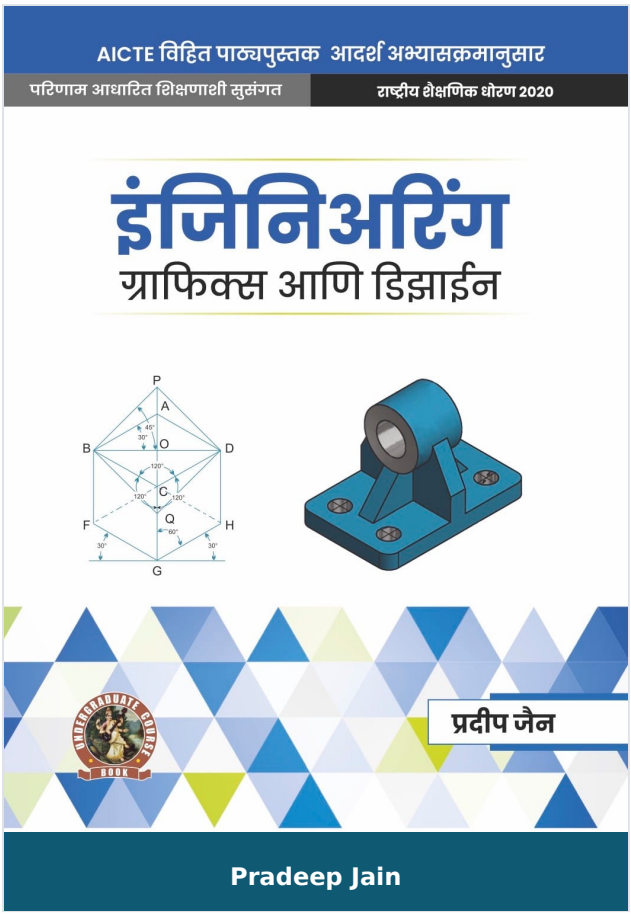
Ramesh Bangia

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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Engineering Graphics & Design

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Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
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Condition Type :	New
Country Origin :	India

Product Description

This textbook “Engineering Graphics and Design” is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples.

Salient Features:

1. Introduction of Engineering Drawing.
2. Orthographic Projection.
3. Projection of Solids.
4. Section of Solids and Development of Surfaces.
5. Isometric Projection.
6. Overview of Computer Graphics.
7. CAD Drawing.
8. Solid Modelling.
9. Team Design Project.

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- CO and Po Attainment Table
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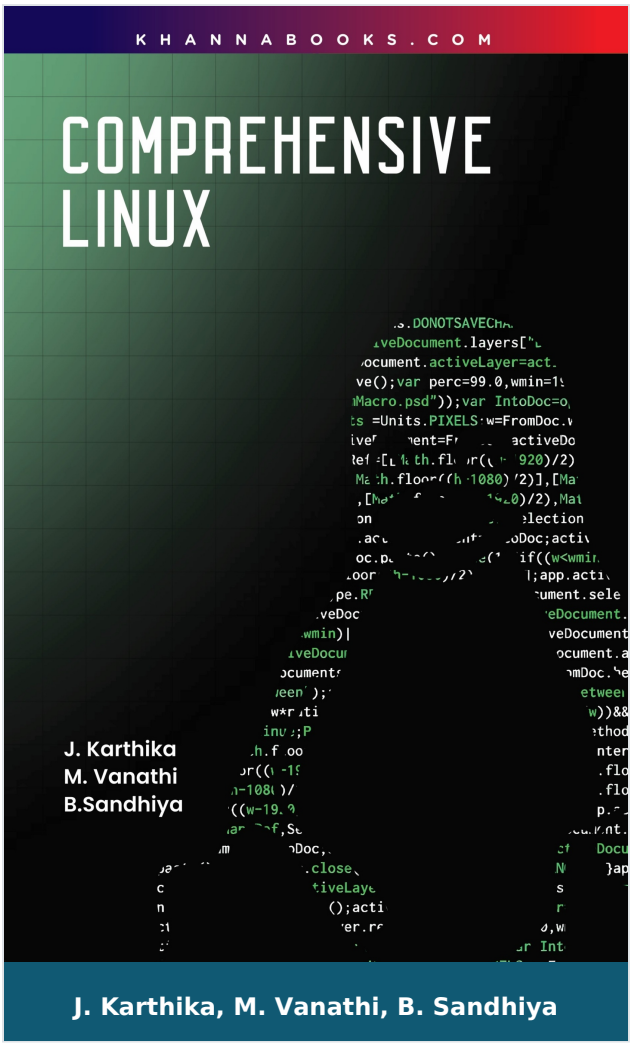
Pradeep Jain

Pradeep Jain has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field.

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Comprehensive Linux

Author :	J. Karthika, M. Vanathi, B. Sandhiya
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Country Origin :	India

Product Description

This comprehensive guide, COMPREHENSIVE LINUX, navigates the core concepts and modern practices of the versatile Linux operating system, which underpins the digital landscape of enterprise, cloud, and embedded systems. Designed as a complete resource for readers seeking in-depth knowledge, the book offers a crucial blend of theoretical insight and hands-on experience to cultivate real-world expertise in system management.

The focus is distinctly practical, exploring vital administrative tasks across key distributions like Ubuntu for foundational skills and Red Hat Enterprise Linux (RHEL) for advanced server administration. Readers will master essential skills including robust user and group management, advanced shell scripting, process handling, and effective software and networking administration. Beyond foundational topics, the text delves into contemporary applications, providing in-depth coverage of Git repositories, security tools from Kali Linux (like Nmap and Metasploit), and integration with cloud services like Amazon Web Services (AWS).

The book is an invaluable asset for a broad audience, including beginners, seasoned system administrators, IT professionals, and developers who need to effectively manage and secure critical infrastructure in an enterprise context. By the end of this journey, you will be proficient in Linux operations, prepared to tackle complex security challenges, and ready to embrace the cloud computing revolution.

Salient Features:

• Foundation & Enterprise: Covers core concepts using beginner-friendly Ubuntu, then shifts to Red Hat Enterprise Linux (RHEL) for advanced server administration and industry-standard practices.

• Practical Lab Exercises: Features numerous hands-on labs and real-world scenarios in every unit, allowing readers to build essential, verifiable expertise in Linux management.

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• Advanced Shell Scripting: Comprehensive instruction on the Linux shell and scripting, empowering users to automate repetitive tasks and achieve efficient, high-level system control.

• Robust Access Control: Detailed units on user and group management, file system navigation, and implementing granular Access Control Lists (ACLs) for system security.

• Security Tools & Auditing: Explores essential security vulnerability practices using Kali Linux, including practical application of industry-leading tools like Nmap and Metasploit.

• Cloud & Version Control: Integrates modern infrastructure topics like Git repositories, container technology, and managing cloud instances in Amazon Web Services (AWS).

• Server Management: Dedicated deep dives into RHEL server setup, network configuration, Logical Volume Management (LVM), and securing web and file servers.

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- Gaining Access
- File manipulations
- managing Software in RHEL
- Introduction to GIT

Author

J. Karthika

J. Karthika

M. Vanathi

M. Vanathi B.Sandhiya

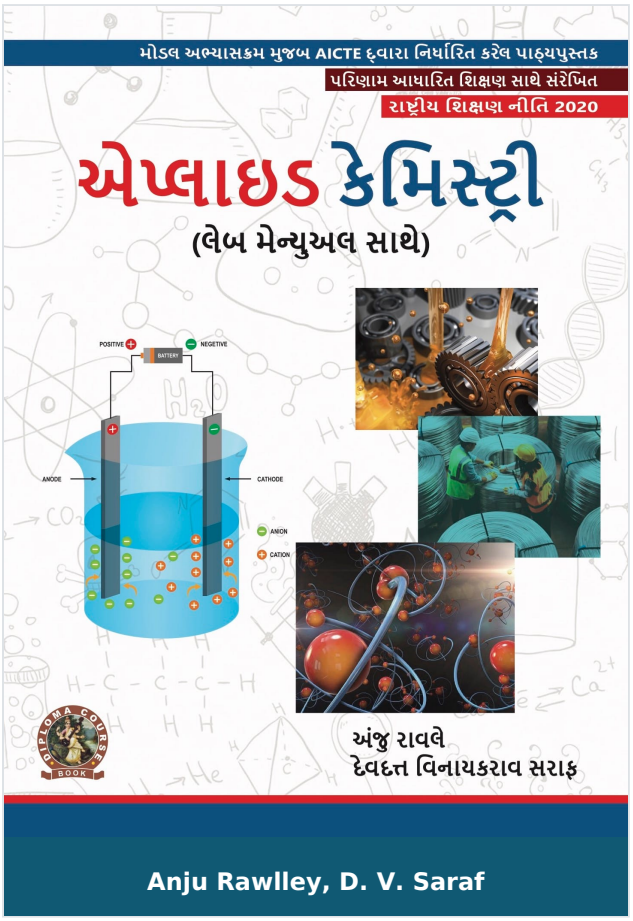
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Applied Chemistry (with Lab Manual)

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Product Description

This text book o “Applied Chemistry” is development as per AICTE model curriculum ,2018, for compulsory course on Applied Chemistry of first years Diploma Program in Engineering and Technology. Atomic Structure, Chemical Bonding & Solution, Water, Engineering Materials, Chemistry of fuels & Lubricants and Electrochemistry are the five units of this book, comprising of both practical and theory.

Some salient features of the book:

1. Course Outcomes and Unit Outcomes are written specifically and are mapped with programme Outcomes.

2. Utmost care have been taken to amalgamate the philosophy of outcome based education.

3. The structure of the textbook is comprehensive, where in practical exercises are integral part of each unit.

4. The text is presented in a very simple way with illustrations, examples, tables, flow chart, self -assessment questions and their solutions.

5. Micro projects, points/issue for the creative inquisitiveness & curiosity, know more, video links, case study and summary points are integral part of each unit to facilitate the students to develop the attitude of scientific inquiry, investigate the cause and effect relationship, systematic, scientific & logical thinking , ability to observe, analyse and interpret.

6. To meet the requirement of outcome based education (OBE) and outcome based assessment (OBA), criterion referenced testing (CRT) have been used as an integral part of assessment in each practical.

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7. Sample QR codes have been provided in each units on some topics/sub topics for supplementary reading and reinforcing the learning.

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Author

Anju Rawlley

Anju Rawlley Devdatta Vinayakarao Saraf

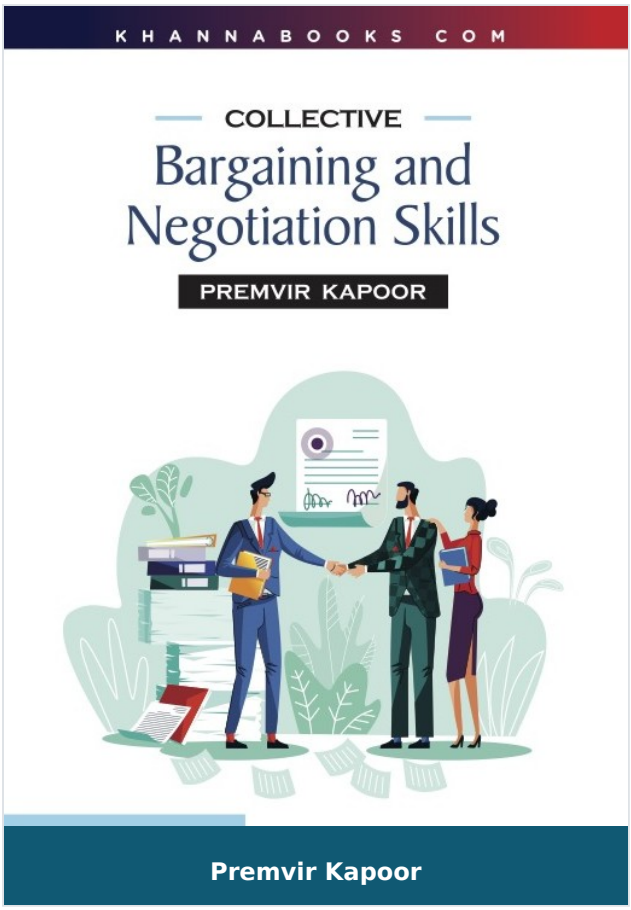
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Collective Bargaining And Negotiation Skills

Author :	Premvir Kapoor
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Product Description

Collective Bargaining And Negotiation Skills

Collective Bargaining and Negotiation Skills has globally become a much discussed issue with economic conditions continuing to be uncertain complexity of business increasing many bold, competitive pressures mounting organizations becoming flatter by each passing day, managers have a tough balancing act to do one side they have a challenge of managing the needs, aspirations and emotions of their people, on the other side they have to negotiate from every stakeholder , the very best for their organization collective bargaining and negotiate are two very important and much needed skills for todays managers. the book test provides the readers a unique resource for continuing self-development. The book aims to fulfill the need of management students and also for the practitioners as a reference manual to help them upgrade their knowledge and skills with the right attitude. Both students in an academic setting as well as management practitioners will benefit from the text.

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- Consideration in Collective Bargaining
- Conflict Management
- Issues and Trends in Collective Bargaining
- Negotiation Skills
- Negotiating A Contract
- Developing Negotiation Strategies
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