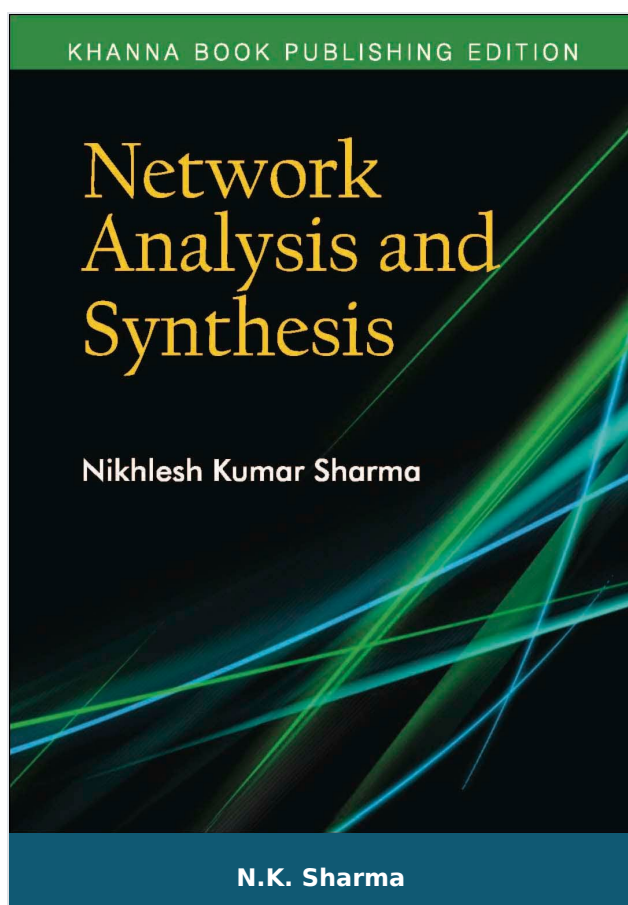




Network Analysis and Synthesis

Author :	N.K. Sharma
ISBN 13 :	978-93-82609-21-6
ISBN 10 :	9382609210
E-ISBN 13 :	978-93-82609-21-6
Edition :	1
Pages :	536
Type of book :	Physical
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 499.00
Categories :	Electrical, Electronics & Communication Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This book is written in a very lucid and simplified manner to explain the concepts of 'network analysis and synthesis' It describes network terminology, various methods used to simplify networks, graph theory, various theorems, network functions, two port networks, positive real functions, network synthesis and design of passive filters and concepts of active filters.

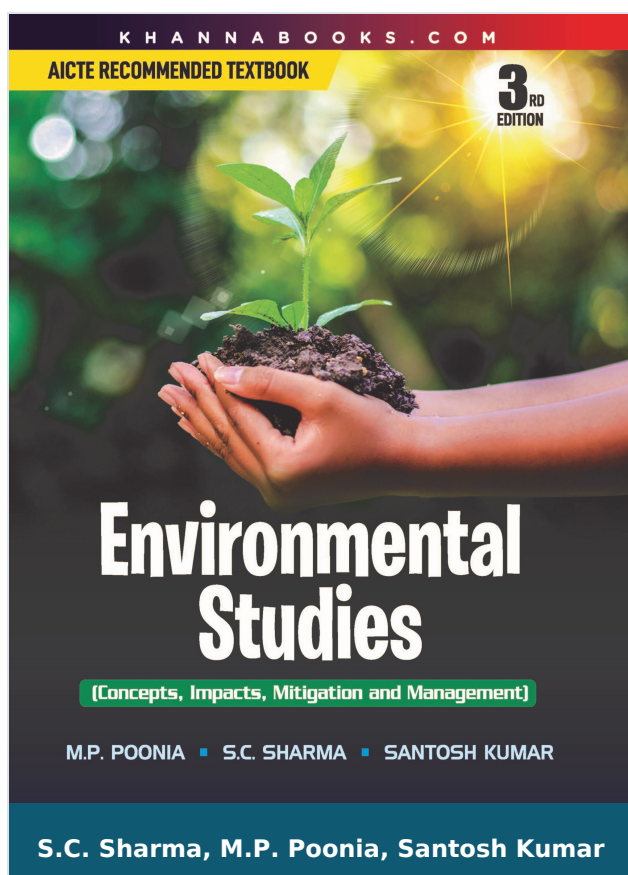
Table Of Contents

- Introduction
- Graph Theory
- Network Theorems
- Network Function
- Two Port Network
- Network Synthesis
- Filters
- Index

Author

N.K. Sharma

N.K. Sharma Dr. Nikhlesh Kumar sharma is working as Director of vidya College of Engineering, Bagpat road, Meerut. He has obtained his PH.D. and M. Tech. degree from IIT Kanpur in 2001 and 1993 respectively and B.Sc. (Engg.) in 1986 from Dayalbagh Educational Institute (Deemed University) Agra. He has worked as Director of Institute of Technology for women, GIDA, Gorakpur and Raj Kumar Goel Engineering College, Ghaziabad. In September 2010, he has joined krishana Institute of engineering and Technology, Ghaziabad as professor & Dean (IR &D). He is a member of Board of studies (electrical and Electronics), Mahamaya Technical University, Noida formerly UP Technical University, Lucknow. He has membership of professoral bodies of ISTE and IE(I). He has also worked as procurement officer of MHRD-World Bank TEQIP project. He has supervised 10 M. Tech. Dissertations and 02 Ph. D. thesis.



Environmental Studies

Author :	S.C. Sharma, M.P. Poonia, Santosh Kumar
ISBN 13 :	978-93-90779-02-4
ISBN 10 :	9390779022
E-ISBN 13 :	978-93-90779-02-4
Edition :	Third
Pages :	536
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	Computer Science Engineerings, Environmental Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Environmental degradation has been major concern since past few decades, because of economic growth and development across the world has caused major impacts on the Earth's ecosystems and natural resources to an extent that can limit the well-being of future generations.

India has recently started realizing the importance of environmental and the environmental education. Following the 2001 Supreme Court directive, the environmental education has been or is being included in the curriculum right from the school stage to College/University level.

This book covers the syllabi of all Indian Technical Universities and other Universities for different disciplines, may it be in the name of environmental studies, environmental science, ecology or natural resource management. This book is written to bring about an awareness of a variety of environmental concerns and deals from concepts through impacts, mitigation and management.

Table Of Contents

- An Introduction - Multi-Disciplinary Nature of Environmental Studies
- The Earth and the Biosphere (The Earth Sciences)
- Ecology
- Ecosystems
- Biodiversity and its Conservation
- Natural Resources
- Forest Resources
- Water Resources
- Mineral Resources
- Land (Soil) Resources
- Energy Resources
- Food Resources
- Environmental Pollution (Hazards and Control)
- Waste Management
- Disaster Management
- Social Issues
- Environmental Challenges
- Human Population and the Environment
- Resettlement and Rehabilitation (R&R)
- Environmental Protection
- Environmental Legislations
- Environmental Impact Assessment (EIA)
- Environmental Management and Environmental Management Plan

- Field Work (Project Work)
- Exercise (Distinguishing, Short Answer Questions, Expansions, Fill in the Blanks, MCQs, True-False)

Author

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.

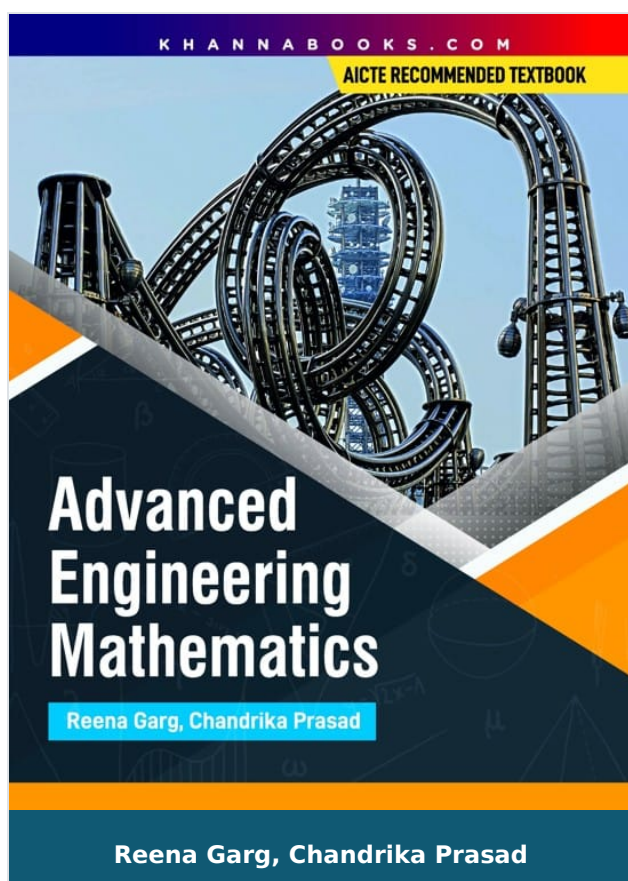
M.P. Poonia

Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata. Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.

Santosh Kumar

Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional

Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).



Advanced Engineering Mathematics

Author : Reena Garg, Chandrika Prasad

ISBN 13 : 978-93-86173-52-2

ISBN 10 : 9386173522

E-ISBN 13 : 978-93-86173-52-2

Edition : First

Pages : 1032

Type of book : Physical

Year : 2023

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 799.00

Categories : [UNIVERSITY RECOMMENDED,](#)
[APPLIED SCIENCES &](#)
[HUMANITIES, Book Store,](#)
[APPLIED SCIENCES &](#)
[HUMANITIES](#)

Condition Type : New

Country Origin : India

Product Description

This book provides a comprehensive, thorough and up to date treatment of mathematics in engineering and sciences. This is intended to introduce students of engineering, physics, mathematics, computer sciences and other related fields to those areas of applied mathematics that are most relevant for solving practical problems. Practice is the key word in the learning process of mathematics . The aim of this book is to provide a vast knowledge of mathematics and its diverse practical use in daily lives. The course contents in this book are the sole pre-requisites. The experience of the author of more than a decade in teaching at under graduate, post graduate level and in the research areas of mathematics in University makes this book useful.

In this book all the topics and related concepts have been given in a lucid and simple way filling every gap between students and mathematics. A lot of worked examples are given so as to help the readers understand better.

Table Of Contents

- Matrices and ITS Applications
- Application to Geometry
- Coordinate Geometry of Three Dimensions
- Expansion of Functions (Taylor's and Maclaurin's Series)
- Partial Differentiation
- Reduction Formlae: Definite Integrals
- Vector Calculus
- Infinite Series
- Fourier Series
- Differentiation
- Partial Differential Equations
- Function of a Complex Varibale
- Laplace Transforms and ITS Application
- Fourier Transform and ITS Application
- Empirical Laws and Curve Fitting.
- Solution to Numerical, Algebraic and Trabscendental Equation
- Numerical Solution of Ordinary Differential Equations
- Numerical Solution of Ordinary Differential Equations
- Numerical Solution of Partial Differential Equations

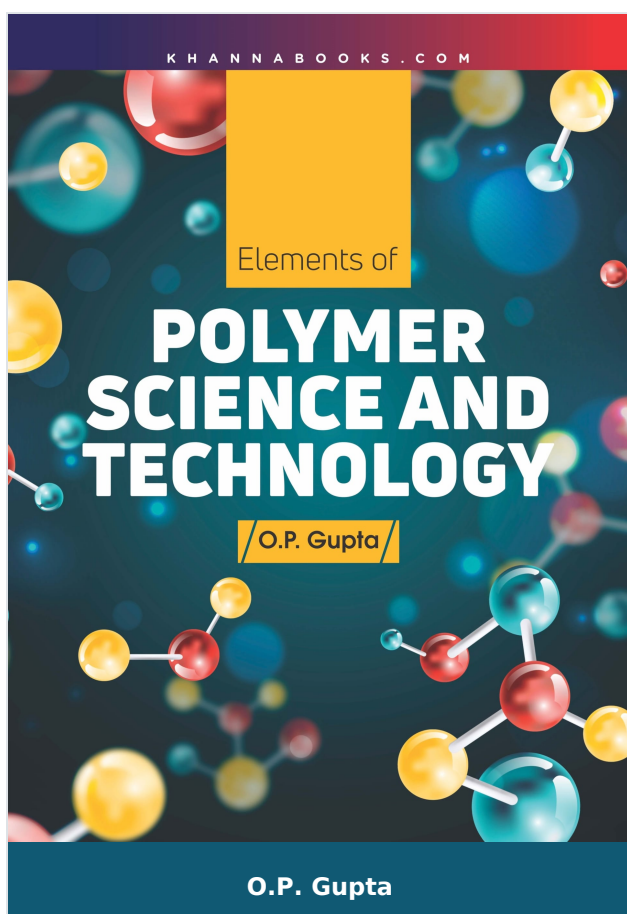
Author

Reena Garg

Dr. Reena Garg , M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers. She has published more than 10 research papers in various International Journals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

Chandrika Prasad

Chandrika Prasad



Elements of Polymer Science and Technology

Author :	O.P. Gupta
ISBN 13 :	978-93-55384-56-0
ISBN 10 :	9355384564
E-ISBN 13 :	978-93-55384-56-0
Edition :	1
Pages :	340
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 475.00
Categories :	Chemical Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book covers the manufacture, properties of important polymers-plastics, rubbers & synthetic fibers. Important Information about various raw materials used for polymer industries, various polymers processing technologies & status of Indian polymer industry are also included. It also contains short questions & answers and multiple-choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students.

This book is targeted to benefit the following:

1. Diploma in engineering student.
2. Degree in engineering students.
3. AMIE , AMIIM , AMIICHE Students.
4. MSc. & B.Sc. Students.
5. Faculty members and teaching staff.
6. Practicing engineers / Professionals.

The scope and coverage of subject matter presented can be gauged from glancing the contents portion of the book to judge its suitability and relevance for a particular target group of reader. Extensive use of internet resources has been made in gathering the relevant information and the subject matter has been presented in a simple, lucid and easy to understand manner for easy grasping of the subject.

Latest and updated information /data/ statistics pertaining to the subject matter has been included in this edition for the benefit of the readers.

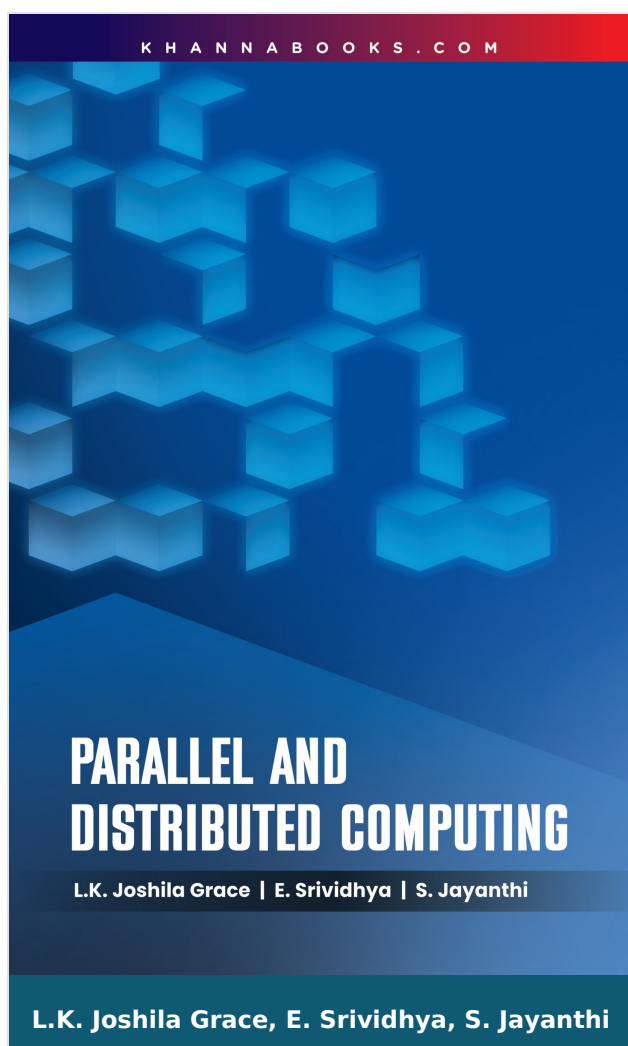
Table Of Contents

- Manufacture, Properties & Applications of Important Plastics.
- Manufacture, Properties & Applications of Important Elastomers (Rubbers).
- Manufacture, Properties & Applications of Important Synthetic Fibers.
- Appendices

Author

O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.



Parallel and Distributed Computing

Author : L.K. Joshila Grace, E. Srividhya, S. Jayanthi

ISBN 13 : 978-93-55383-09-9

ISBN 10 : 9355383096

E-ISBN 13 : 978-93-55383-09-9

Edition : First

Pages : 136

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 248.00

Categories : [Computer Science Engineering,](#)
[New Arrivals, Book Store,](#)
[Sathyabama Series](#)

Condition Type : New

Country Origin : India

Product Description

The rapid growth in data processing and the increasing complexity of computational problems have made Parallel and Distributed Computing (PDC) an essential field in modern technology. This book serves as a comprehensive and authoritative guide, providing both the theoretical foundations and practical insights required to master this evolving domain. It systematically explores how systems can execute multiple tasks simultaneously, fundamentally improving speed, efficiency, and resource utilization. The core theme is the detailed exposition of PDC principles, architectures, and applications, starting with the motivations for parallelism and modifications to the traditional von Neumann model. It offers a deep dive into parallel hardware like SIMD and MIMD systems, advanced architectures such as CMPs and GPUs, and crucial concepts like cache coherence and OpenCL programming. The book then transitions to distributed computing, covering critical areas like communication models, synchronization, deadlock handling, and distributed file systems and shared memory. With its structured five-unit approach, real-world applications, and problem-solving exercises, this resource is designed to equip a broad target audience—including students, researchers, and professionals—with the necessary knowledge to design and implement efficient, scalable systems. Mastering the concepts presented herein will be instrumental in shaping the future of high-performance computing.

Salient Features:

- **Fundamental Architectures:** Provides comprehensive coverage of parallel hardware, including Flynn's taxonomy (SIMD/MIMD), cache coherence, and the evolution of modern architectures like CMPs and GPUs.
- **Advanced Programming Models:** Detailed exploration of key models of parallelism such as the PRAM and CTA models, alongside an essential introduction to OpenCL for heterogeneous parallel computing.

- **Interconnection Networks:** Focuses on the crucial role of interconnection networks in parallel and distributed systems. It discusses both static and dynamic approaches to ensure high-speed and efficient communication among all processors.
- **Distributed Communication:** Covers essential goals, design issues, and models like the Client-Server Model. Includes in-depth topics such as Remote Procedure Calls (RPC) and Group Communication mechanisms.
- **Synchronization & Control:** Offers an in-depth analysis of synchronization algorithms, deadlock handling, and distributed scheduling techniques for effective resource and process management in multi-node systems.
- **Memory Management Systems:** Dedicated units on Distributed File Systems (DFS) design, implementation, and an introduction to shared memory consistency models, including a MACH system case study.
- **Performance Optimization:** Addresses practical considerations for performance, including floating-point precision, parallel reduction techniques, and managing common caveats like overhead and over-parallelization.
- **Real-World Applications:** Explores the wide scope of PDC, with applications in scientific simulations, AI, big data analytics, bioinformatics, and commercial systems like web and database services.

Table Of Contents

- Introduction to Parallel Computing
- Architectures and Programming
- Communication in Distributed Computing
- Synchronization and Process in Distributed System
- Distributed File Systems and Shared Memory

Author

L.K. Joshila Grace

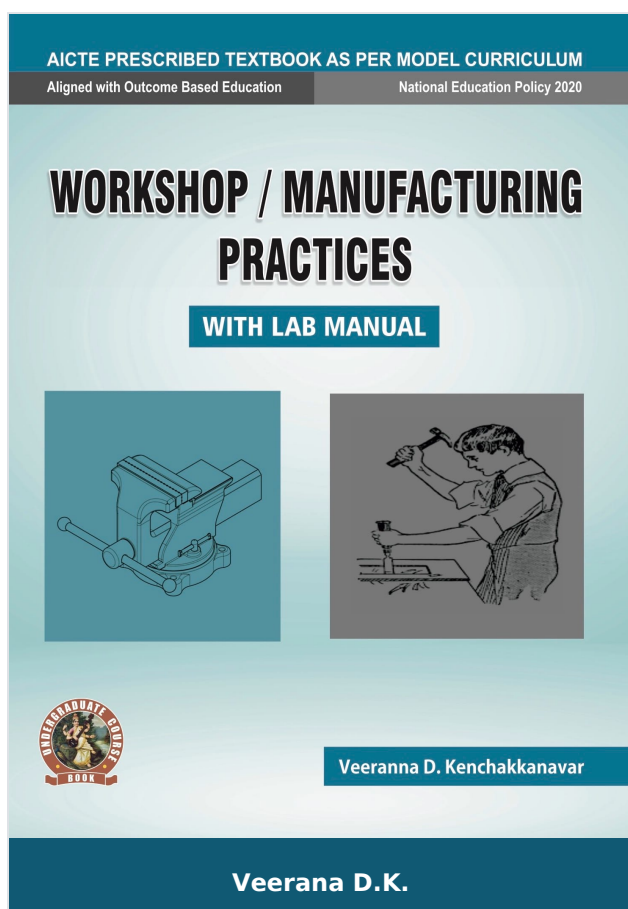
Joshila Grace L. K. E. Srividhya S. Jayanthi

E. Srividhya

E. Srividhya

S. Jayanthi

S. Jayanthi



Workshop / Manufacturing Practices (with Lab Manual)

Author :	Veerana D.K.
ISBN 13 :	978-93-91505-33-2
ISBN 10 :	9391505333
E-ISBN 13 :	978-93-91505-33-2
Edition :	First
Pages :	172
Type of book :	Physical
Year :	2022
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store, Ebooks, APPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations.

Salient Features:

1. Manufacturing Methods
2. CNC Machining, Additive manufacturing
3. Fitting operations & power tools
4. Electrical & Electronic
5. Carpentry
6. Plastic moulding, glass cutting
7. Metal casting
8. Welding (arc welding & gas welding), brazing

9. Laboratory experiments and models

10. Appendices

11. References

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- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Part- A: Manufacturing Practices
 - Manufacturing Methods
 - CNC Machining, Additive manufacturing, Fitting
 - operations & power tools
 - Electrical & Electronic
 - Carpentry, Plastic moulding, glass cutting
 - Metal casting, welding (arc welding & gas welding), brazing
- Part- B: Workshop Practice Laboratory
- Appendices
- References

Author

Veerana D.K.

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations. Salient Features: I Manufacturing Methods I CNC Machining, Additive manufacturing I Fitting operations & power tools I Electrical & Electronic I Carpentry I Plastic moulding, glass cutting I Metal casting I Welding (arc welding & gas welding), brazing I Laboratory experiments and models I Appendices I References

SECOND EDITION



Gaurav Gupta, Sarika Gupta

Author : Gaurav Gupta, Sarika Gupta

ISBN 13 : 978-93-82609-54-4

ISBN 10 : 9382609547

E-ISBN 13 : 978-93-82609-54-4

Edition : 2

Pages : 350

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 550.00

Categories : [Computer Science Engineering,](#)
[Book Store](#)

Condition Type : New

Country Origin : India

Khanna Publishing House

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

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

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.

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

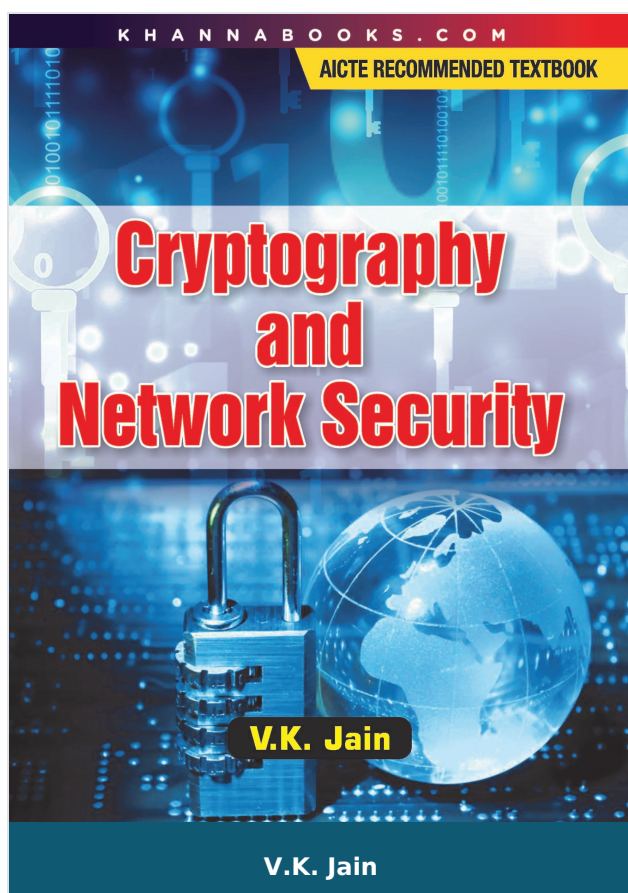
Author

Gaurav Gupta

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.

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.



Cryptography and Network Security

Author :	V.K. Jain
ISBN 13 :	978-93-80016-80-1
ISBN 10 :	9380016808
E-ISBN 13 :	978-93-80016-80-1
Edition :	First
Pages :	604
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 625.00
Categories :	Computer Science Engineering, UNIVERSITY RECOMMENDED, Computer Science Engineerings, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This book has been written keeping in mind syllabi of all Indian universities and optimized the contents of the book accordingly. These students are the book's primary audience. Cryptographic concepts are explained using diagrams to illustrate component relationships and data flows. At every step aim is to examine the relationship between the security measures and the vulnerabilities they address. This will guide readers in safely applying cryptographic techniques. This book is also intended for people who know very little about cryptography but need to make technical decisions about cryptographic security. many people face this situation when they need to transmit business data safely over the Internet. This often includes people responsible for the data, like business analysts and managers. as well as those who must install and maintain the protections, like information systems administrators and managers. This book requires no prior knowledge of cryptography or related mathematics. Descriptions of low-level crypto mechanisms focus on presenting the concepts instead of the details. This book is intended as a reference book for professional cryptographers, presenting the techniques and algorithms of greatest interest of the current practitioner, along with the supporting motivation and background material. It also provides a comprehensive source from which to learn cryptography, serving both students and instructors. In addition, the rigorous treatment, breadth, and extensive bibliographic material should make it an important reference for research professionals. While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

Table Of Contents

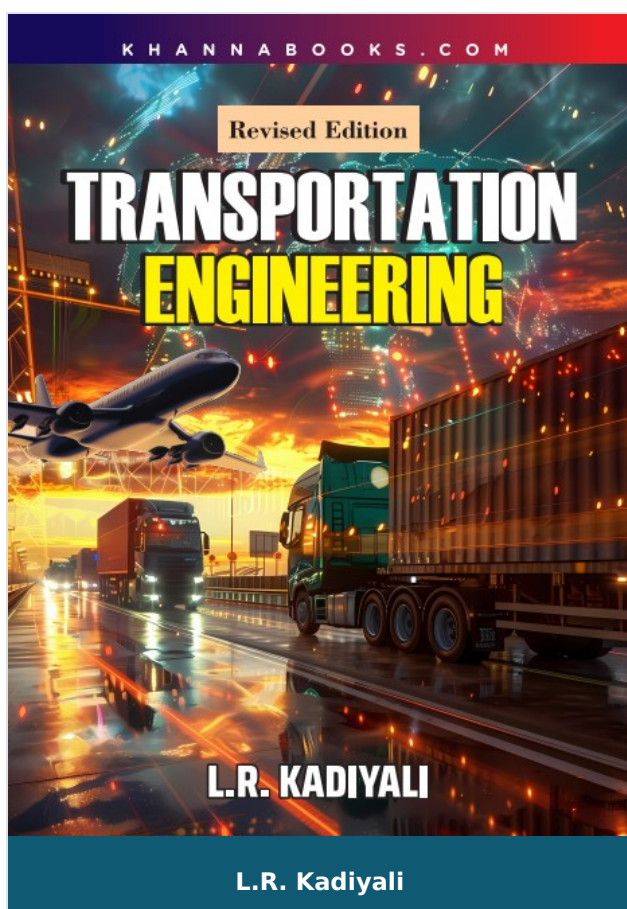
- Introduction to Cryptography and Network Security
- Basic Concepts in Data Encryption
- Model Block Cipher
- Groups, Ring and Field
- Public Key Cryptosystem and RSA
- Authentication
- Digital Signatures
- Authentication Application
- IP Security
- Web Security
- System Security
- Index

Author

V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This

was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.



Transportation Engineering

Author :	L.R. Kadiyali
ISBN 13 :	978-93-82609-85-8
ISBN 10 :	9382609857
E-ISBN 13 :	978-93-82609-85-8
Edition :	First
Pages :	408
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store, Best Sellers
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

India's Transport System has several deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas.

The book addresses these issues and it is hoped that the engineering students studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career. This book has been designed keeping in mind the latest syllabi of all major Indian Universities.

Table Of Contents

- SECTION-1: TRANSPORTATION SYSTEMS AND PLANNING
 - Introduction
 - Role of Transport in Society
 - Modes of Transport and Criteria for Choice
 - Transport Planning
- SECTION-2: HIGHWAY ENGINEERING
 - History of Growth of Highways
 - Development of Roads in India After Independence
 - Geometric Design
 - Surveys, Investigations and Project Preparation
 - Embankment Design and Construction
 - Highway Drainage
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 - Types of Pavements and Factors Governing Pavement Design
 - Design of Flexible Pavement
 - Design of Rigid Pavements
 - Pavement Materials
 - Construction of Pavements
 - Maintenance of Highways
 - Use of Geosynthetics in Highway Engineering
 - Urban Roads
 - Hill Roads
 - Road in Desert Areas

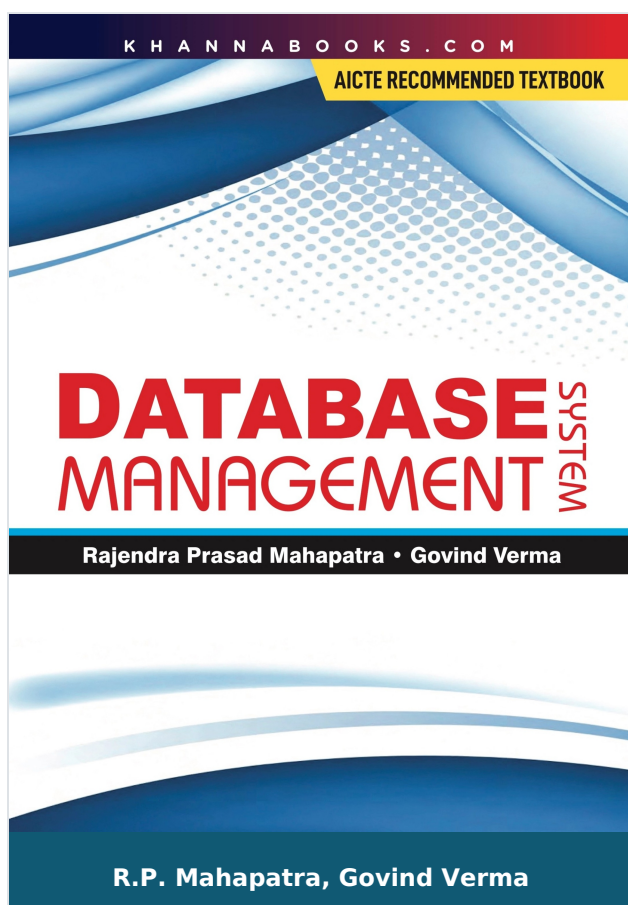
- Toll Roads
- Quality Assurance
- Highway Administration and Finance
- Traffic Engineering
- SECTION-3: RAILWAY ENGINEERING
- Introduction to Railway Engineering
- Railway Technology
- Role of Railways
- History of Growth of Railways in India
- Surveys and Project Preparation
- Geometric Design of Railway Track
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- Signalling and Traffic Control
- Traction and traction Resistance
- Stations, Yards and Station Equipment
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- Planning for Water Transportation Facilities
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- Lock Entrance
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- Transit Sheds, Warehouses and Cargo Handling Facilities
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- SECTION-7: MULTI-MODAL TRANSPORT
- Multi-Modal Transport

Author

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Database Management System

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ISBN 13 : 978-93-82609-14-8

ISBN 10 : 9382609148

E-ISBN 13 : 978-93-82609-14-8

Edition : First Reprint

Pages : 552

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 695.00

Categories : [Computer Science Engineering,](#)
[Computer Science Engineerings,](#)
[Book Store](#)

Condition Type : New

Country Origin : India

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This book fundamental concepts necessary for designing, using and implementing database systems and applications. This book assumes no previous knowledge of database or database technology and the concepts are built from grounds-up basic concepts to advanced techniques and technologies. This is . The book is self- contained and has flexible organization to suit the needs of individual course.

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- Introduction
- Data Base Design and data Modeling
- Data Base Query Languages
- Database Storage & File Structure
- Database Implementation
- Type Of Databases
- Database Application

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