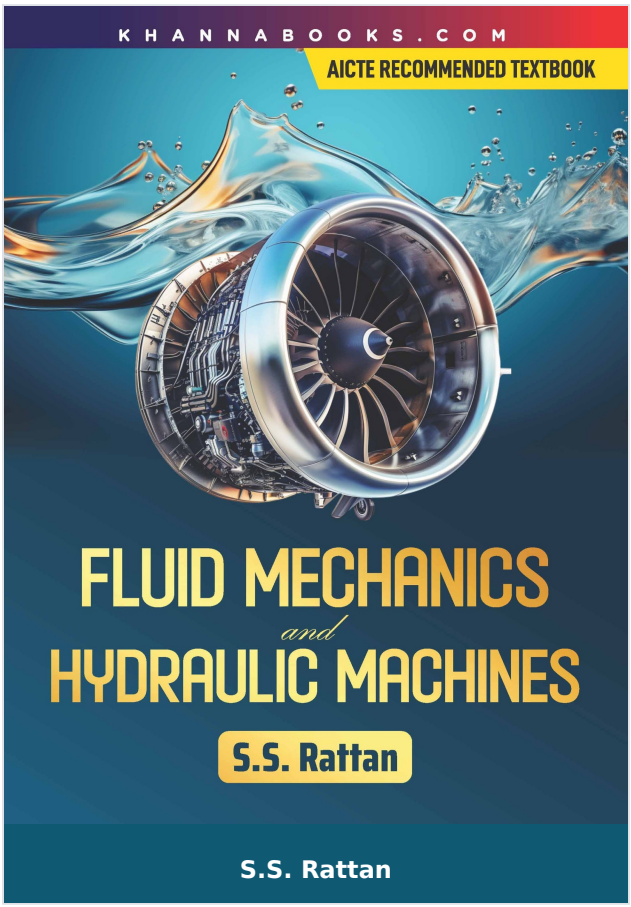


Fluid Mechanics and Hydraulic Machines

Author :	S.S. Rattan
ISBN 13 :	978-81-87522-46-1
ISBN 10 :	8187522461
E-ISBN 13 :	978-81-87522-46-1
Edition :	1
Pages :	752
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 548.00
Categories :	Mechanical Engineering, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Written in an innovative style, this book in SI system of units is a complete treatise on fluid mechanics and hydraulic machines. It presents the subject matter in an explicit, lucid and comprehensive manner. Simple mathematical models have been used to describe the intricate physical concepts.

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- Flow in Open Channels
- Boundary Layer Theory
- Immersed Bodies
- Compressible Flow
- Impact of Jets
- Hydraulic Turbines
- Hydraulic Pumps
- Miscellaneous Fluid Machines

Author

S.S. Rattan

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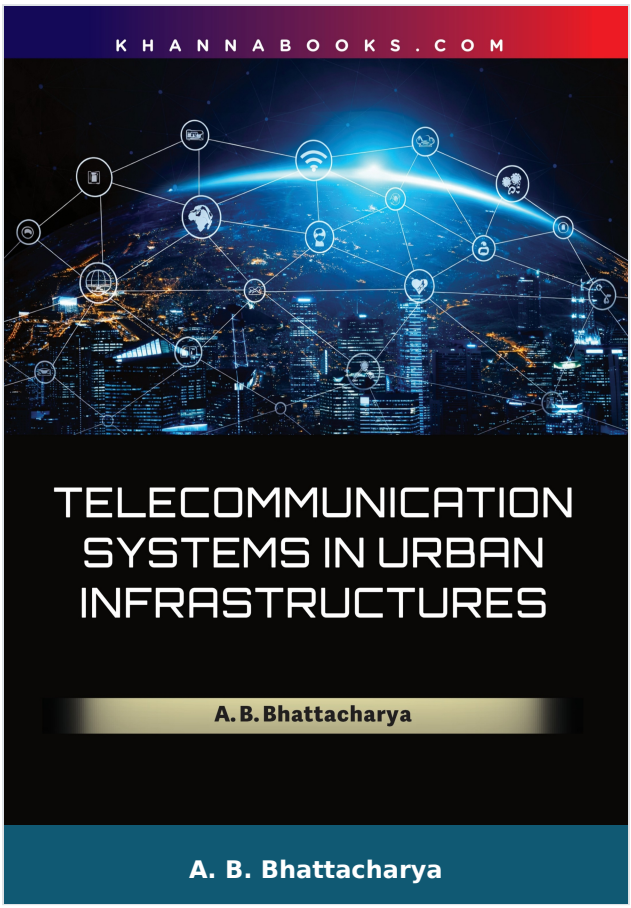
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Dr. S.S. Rattan is currently Assistant Professor in the Department of Mechanical Engineering at the Regional Engineering College, Kurukshetra. He did his post graduation in Mechanical Engineering from Punjab Engineering College, Chandigarh in 1981. Since then he has been engaged in teaching and researching. He obtained his Ph.D. degree from Kurukshetra University in 1995 in the field of Tribology. He has authored several papers which have been published in national and international journals. He is also the author of two other books-Theory of Machines and Fluid machines. He is a member of Society of Fluid Mechanics and Fluid Power India.

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Telecommunication Systems In Urban Infrastructures

Author :	A. B. Bhattacharya
ISBN 13 :	978-93-74542-78-1
ISBN 10 :	9374542781
E-ISBN 13 :	978-93-74542-78-1
Edition :	First
Pages :	344
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	Electrical, Electronics & Communication Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Telecommunication Systems In Urban Infrastructures

Modern cities run on connectivity. From smart transport and energy grids to IoT-enabled homes and resilient emergency networks, telecommunication on systems form invisible backbone of urban life. Telecommunication systems in Urban Infrastructure delivers a comprehensive, practical, and future-focused exploration of how communication technologies design, support, and transform smart cities.

This book bridges theory and real-world application, guiding students, engineers, planners, and policymakers through the full ecosystem of urban telecommunication – from foundational signal principles to emerging 6G, AI- driven networks, and cyber-resilient infrastructure.

Readers will explore:

- Core principles of wired and wireless telecommunication systems
- Smart city connectivity for transport, utilities, building, and public spaces
- IoT integration, cyber security, and urban data privacy
- Planning, deployment, and economic challenges in dense urban environments
- Cutting-edge technologies including AI optimization, edge/cloud computing, and quantum communication
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Each chapter is carefully structured with:

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- Numerical problems and technical exercises
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- Practical insights into standards, regulations, and infrastructure planning

With coverage spanning telecom fundamentals, smart utilities, mobility systems, urban IoT, security frameworks, and next-generation networks, this book provides a complete roadmap for designing and managing connected cities. Whether you are4 preparing for academic study, professional deployment, or research in smart infrastructure, this text equips you with the technical depth, analytical tools, and systems perspective required building the cities of tomorrow.

Build smarter networks. Design resilient cities. Shape the connected future.

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Author

A. B. Bhattacharya

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences

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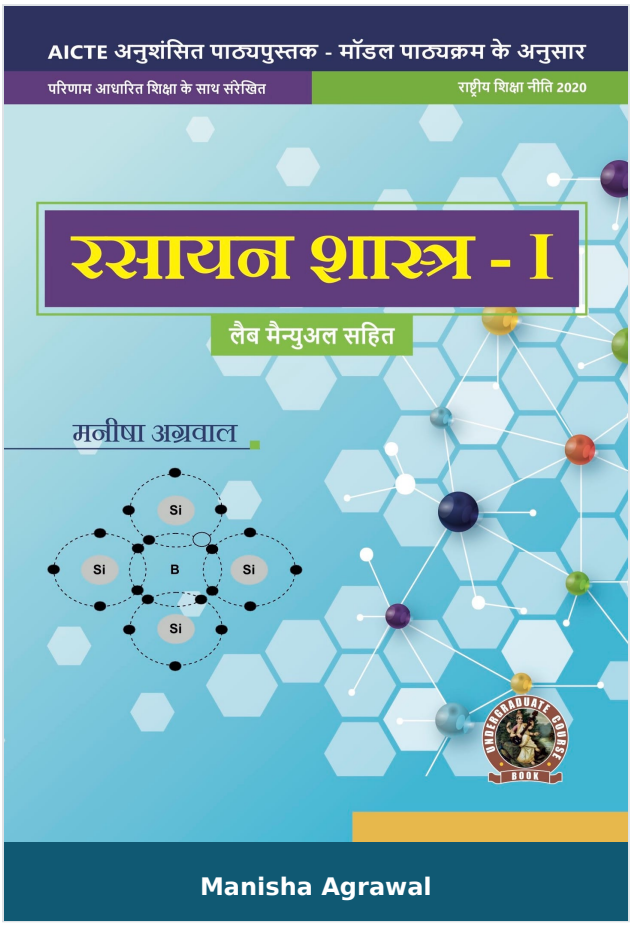
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division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

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Chemistry I (with Lab Manual)

Author :	Manisha Agrawal
ISBN 13 :	978-93-55380-91-3
ISBN 10 :	9355380917
E-ISBN 13 :	978-93-55380-91-3
Edition :	First
Pages :	224
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

Product Description

“Chemistry-I” is a compulsory paper for the first year Undergraduate course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education. Book covers seven topics- Atomic and molecular structure, Spectroscopic Technique and applications, Inter-molecular Forces and Potential Energy Surfaces, Use of Free Energy in Chemical Equilibrium, Periodic Properties, Stereo-chemistry, Organic Reactions and Synthesis of Drug Molecules. Each topic is written is easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test student’s comprehension.

Salient Features:

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 us of ICT, Projects group discussion etc.

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

4. Figures, tables, chemical equations and comparative charts are inserted to improve clarity of the topics.

5. Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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

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- Reactions Synthesis of Drug Molecules
- Annexure
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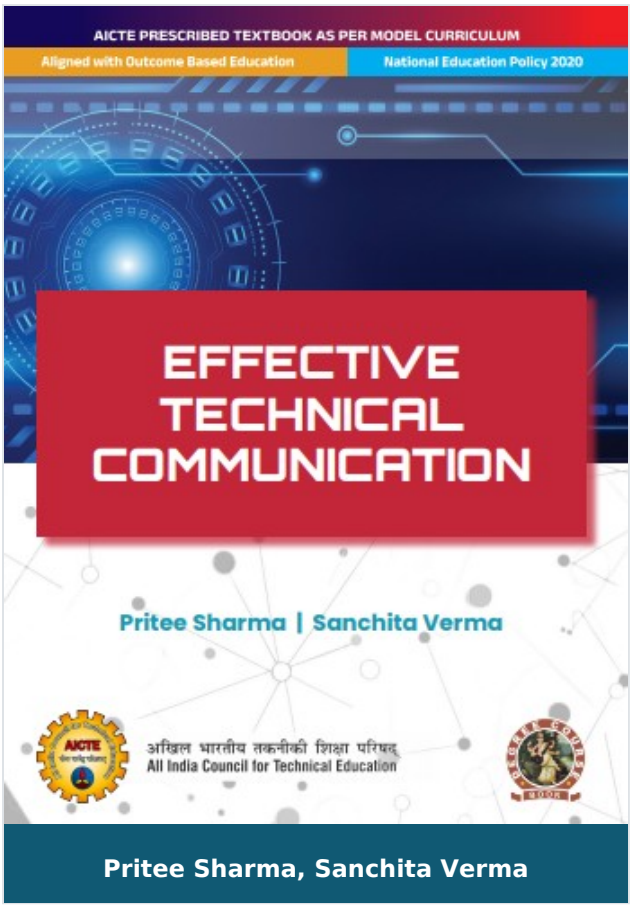
Manisha Agrawal

Manisha Agrawal Dr. Manisha Agarwal is Dean, Basic Sciences at Chhattisgarh Swami Vivekanand Technical University Bhilai. Professor and head, Department of Chemistry at Rungta College of Engineering & Technology, Bhilai, (C.G.). She completed Ph. D. from Pt. Ravishankar Shukla University, Raipur in 1999. Since then she has been engaged in teaching and research. Dr. Manisha has authored several papers which have been published in SCI indexed International and National journals. She has organised more than 10 Conferences and workshops as convener among them four were International Conferences. She has credited five books as author, three patents as inventor and applicant and six Research Project Grants as Principal Investigator from Government Funding agencies like AICTE, CCOST and CSVTU. She has supervised 5 M. Phil. Students, 12 BE and Diploma students. Presently 6 research scholars are perusing Ph. D. under her supervision.

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Effective Technical Communication

Author :	Pritee Sharma, Sanchita Verma
ISBN 13 :	978-93-55387-86-8
ISBN 10 :	9355387865
E-ISBN 13 :	978-93-55387-86-8
Edition :	First
Pages :	184
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 348.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Effective Technical Communication

This book is a comprehensive guide into the sphere of technical communication. In the contemporary time, the workplace has become global, and communication is increasingly becoming more challenging and complex. This book serves as an essential guide to understand and develop technical skills in organizational communication.

Starting with the basics of communication process, this book delves into business communication, e-correspondence and various facets of planning and preparing a document for technical communication purposes.

Salient Features:

- Detailed alignment of content with course outcomes, program outcomes and specific unit outcomes
- each unit begins with clear learning objectives and pre-reading activity, preparing the reader to acquire necessary skills and knowledge.
- The book is enriched with latest information, interesting facts and QR codes linking to valuable e-resources for further information.
- An interesting blend of student and teacher centric materials, presented in a logical and coherent manner.
- Appropriate use of figures, tables and formats for better understanding of the concepts.
- Know more sections in each unit, encouraging readers to explore beyond the standard syllabus.
- Exhaustive exercises including MCQs and subjective questions provided at the end of each chapter.

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- This book is not just an academic tool, but a bridge to the contemporary professional world of technical communication making it a must have anyone stepping into the realm of organizational communication.

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Prof. Pritee Sharma Professor School of Humanities and Social Sciences IIT Indore Dr.

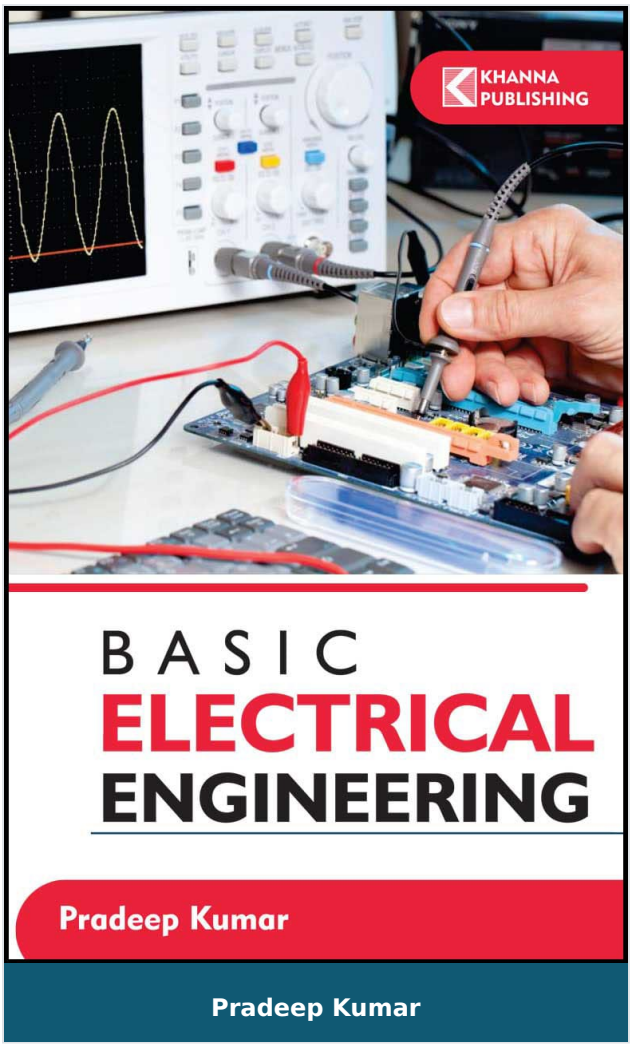
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Basic Electrical Engineering

Author :	Pradeep Kumar
ISBN 13 :	978-93-80016-32-0
ISBN 10 :	9380016328
E-ISBN 13 :	978-93-80016-32-0
Edition :	1
Pages :	356
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 275.00
Categories :	Electrical, Electronics & Communication Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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

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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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- Three Phase System
- Magnetic Circuits
- Transformers
- Electric Machines
- Measuring Instruments
- Introduction to Power System

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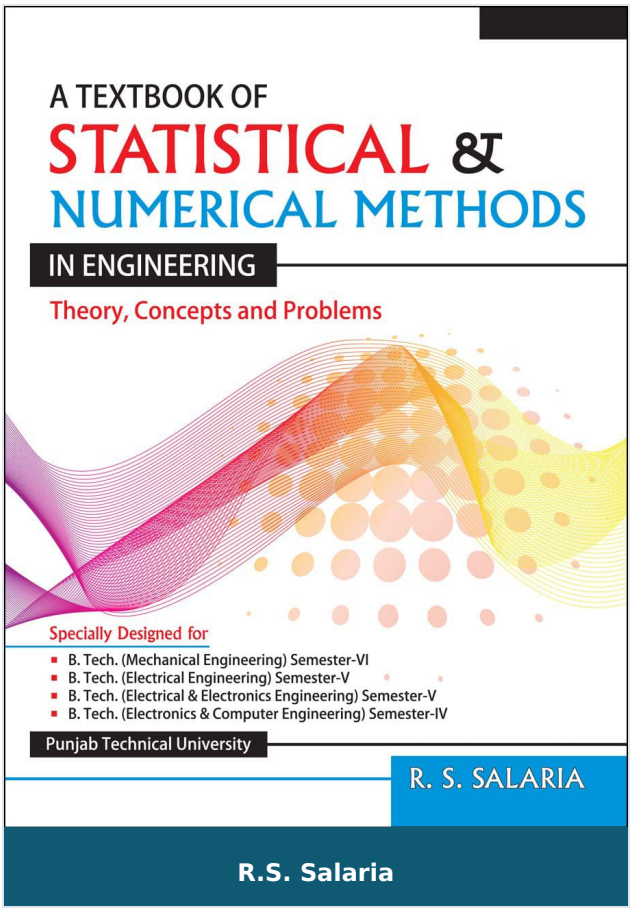
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A Textbook of Statistical & Numerical Methods in Engineering

Author :	R.S. Salaria
ISBN 13 :	978-93-82609-95-7
ISBN 10 :	9382609954
E-ISBN 13 :	978-93-82609-95-7
Edition :	1
Pages :	452
Type of book :	Physical
Year :	2016
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	APPPLIED SCIENCES & HUMANITIES, Book Store, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

Khanna Publishing House
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The subject of A Textbook of Statistical & Numerical Methods is one of the courses in the curriculum of almost all universities and other institutes offering undergraduate and postgraduate courses in Engineering and Physical Science.

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Author

R.S. Salaria

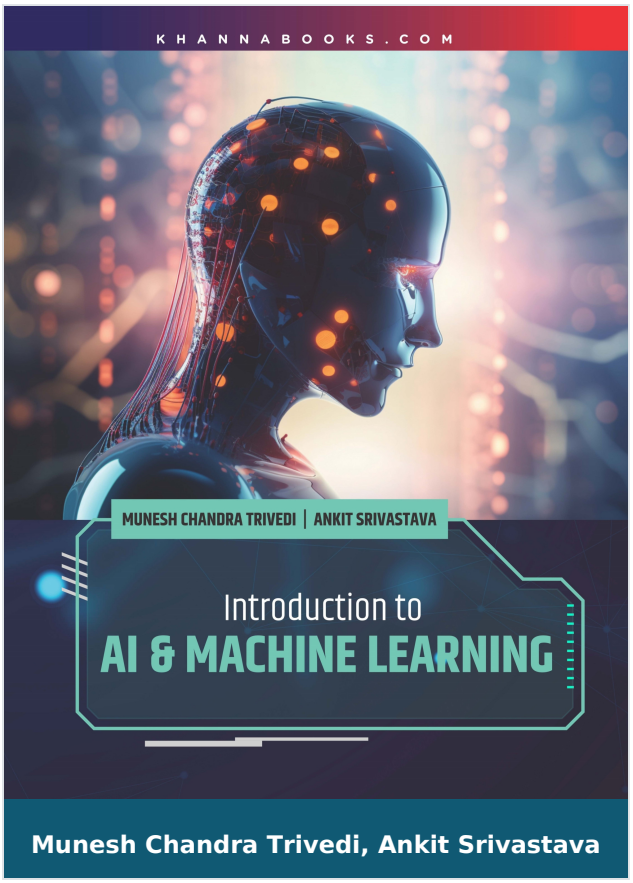
Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a

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Introduction to AI & Machine Learning

Author :	Munesh Chandra Trivedi, Ankit Srivastava
ISBN 13 :	978-93-55386-88-5
ISBN 10 :	9355386885
E-ISBN 13 :	978-93-55386-88-5
Edition :	1
Pages :	336
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	Emerging Technologies, Book Store
Condition Type :	New
Country Origin :	India

Product Description

INTRODUCTION TO AI & MACHINE LEARNING

“Introduction to AI and Machine Learning” is a comprehensive guide designed for readers who are new to the fields of artificial intelligence (AI) and machine learning (ML) The book aims to demystify these valuable insights for those with some foundation Knowledge.

This book is ideal for students and educators seeking a thorough introduction to AI and ML. By the end of the book, readers will have a solid understanding of the fundamental concepts of AI and ML and will be able to write basic AI and ML programs using python.

KEY FEATURES OF THE BOOK

1. Simple Language: Utilizes straightforward and easily understandable language throughout the text.

2. Engaging Learning Experience: Incorporates hands -on activities to enhance the learning experience.

3. Foundational Concepts: Introduces AI and ML, covering weak vs. strong AI, machine learning methods (supervised, unsupervised and reinforcement learning), and optimization techniques.

4. Search Algorithms: Discusses Problem- solving strategies such as BFS, DFS, and A*, with illustrations from examples like the water jug and 8- queen problems.

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- Question Bank

Author

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Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award

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from different national, as well as international forums. He has organized more than 32 international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

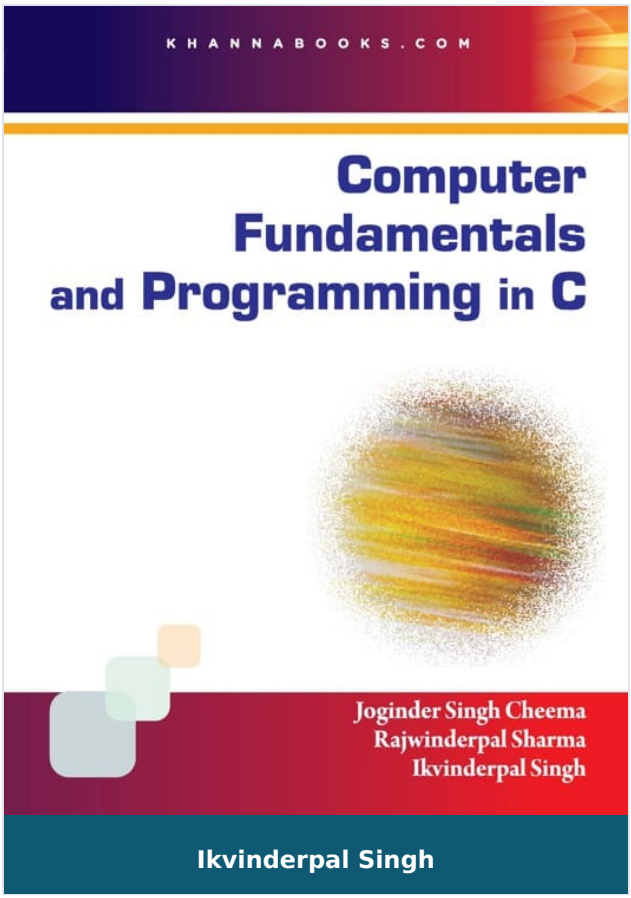
Ankit Srivastava

Mr. Ankit Srivastava is a dedicated academic and researcher with over six years of teaching experience in various engineering colleges and the National Institute of Electronics and Information Technology (NIT), Agartala, Tripura, India. His research primarily focuses on medical imaging and image processing, with an emphasis on leveraging artificial intelligence to contribute to technological advancements in healthcare. Mr. Srivastava has published six research papers in reputed SCI-E and Scopus-Indexed Journal, as well as in several national and international conferences. He also holds three national patents and is the author of a book titled “Introduction to AI and Machine Learning.” His academic journey reflects a strong commitment to innovation, Knowledge dissemination, and research excellence in the field of artificial intelligence and its application in medical science.

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Computer Fundamentals & Programming in C

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-81068-38-0
ISBN 10 :	9381068380
E-ISBN 13 :	978-93-81068-38-0
Edition :	1
Pages :	696
Type of book :	Physical
Year :	2011
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
Categories :	Computer Science Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Explains the introduction to computers, history of computer, computer generations, classification of computers and applications of computer in corporate environment. Presents the basic organization of a computer system and its internal working. Describes the concept of number systems, computer codes and arithmetic, logic gates and Boolean algebra. Introduces the concept of primary and secondary storage. Explains the concept of different input and output devices. Presents the concept of computer software's and programming languages. Deals with commonly used various tools for planning the computer program like algorithm, flowcharts, pseudo code and decision tables. Complete introduction to C Programming including basic structure is given in detail. Extensive coverage of constants, variables, various data types are given in detail. Various types of operators and expressions are described with the help of examples and simple programs. Demonstrates the description of console I/O statements in a lucid manner. Each and every control statement is described with the help of flowcharts and simple programs. Includes numerous illustrative examples to understand the topic easily. Demonstrate every program in a good programming style. Around 200 numerous solved C Programs ans 100 objective type questions are included. Contains numerous theory exercises at the last of each chapter. Gives detailed description of arrays, strings and functions in lucid manner. Covers all concepts of pointers like array and pointer, function and pointer, dynamic memory allocation in detail. Detailed analysis of each and every storage class is covered with the help of programming examples. Detailed description to the concept of structures and unions.

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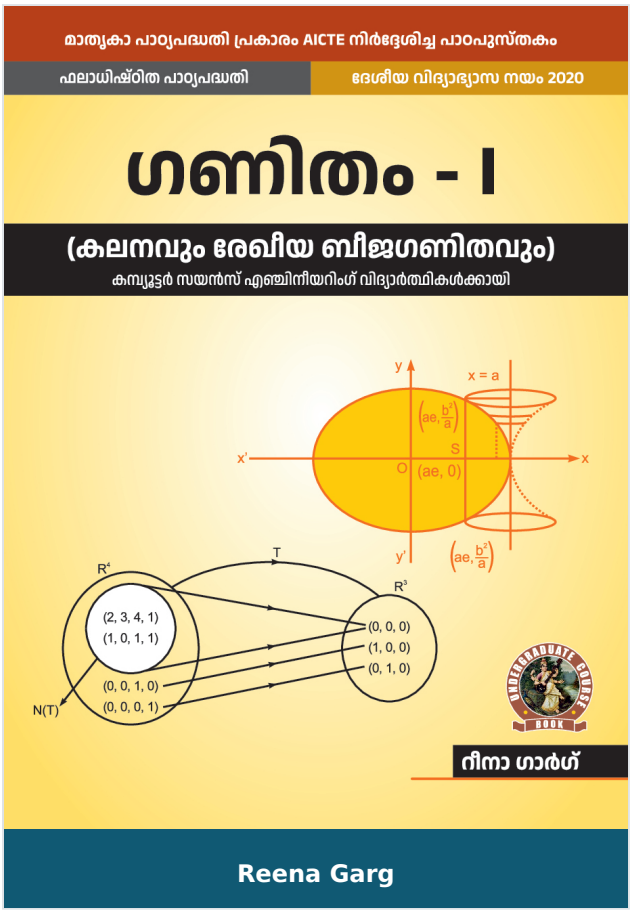
Ikvinderpal Singh

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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Mathematics –I (Calculus and Linear Algebra) For Computer Science Engineering Branches

Author :	Reena Garg
ISBN 13 :	978-93-55381-78-1
ISBN 10 :	9355381786
E-ISBN 13 :	978-93-55381-78-1
Edition :	1
Pages :	508
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, Book Store, Ebooks, Malayalam Books
Condition Type :	New
Country Origin :	India

Product Description

Calculus and Linear Algebra cover all the modules prescribed by AICTE model curriculum to all the 1st year CSE students studying in engineering institutions and universities of the country. It serves as both text book /or useful reference work. It contains 5 units which included calculus, Algebra and vector spaces along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that help in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE. This book is in student's friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of questions in this book have been designed to access the reader's understanding of the subject professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book:

1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.

2. Emphasis on the applications of concepts and theorems.

3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.

4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student's practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the student's capability, to increase the feeling of team work.

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5. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible.

6. Some standard problems with sufficient hints have been included in each exercise to gauge the student’s visual understanding and for grasp the theory.

7. Video links, interesting facts, uses of ICT also included after each topic in every unit for easy understanding of the readers. Also included the pictorial representations of many topics for fast and permanent grasping of the content.

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Author

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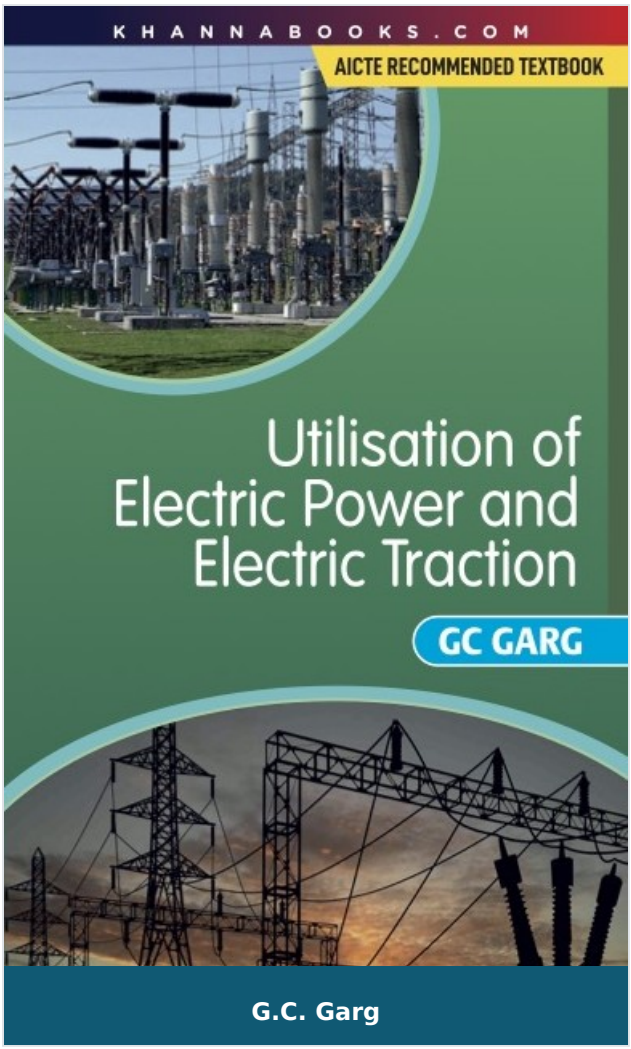
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papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

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Utilisation of Electric Power and Electric Traction

Author :	G.C. Garg
ISBN 13 :	978-93-86173-35-5
ISBN 10 :	9386173352
E-ISBN 13 :	978-93-86173-35-5
Edition :	First
Pages :	1280
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 625.00
Categories :	Electrical, Electronics & Communication Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

A Text Book of Utilization of Electric Power and Electric Traction which is prepared on the basis of Engineering scientific study covering the syllabi of all the universities running electrical engineering courses, Engineering colleges and Technical Education Boards of all the states in India. This book is also meets the requirement of Foreign Universities where this subject is taught.

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- Industrial Utilization
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- Illumination
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- Refrigeration and Air Coditioning
- Electric Traction
- Economic Aspects
- Objective Type Questions of Industrial Utilisation

Author

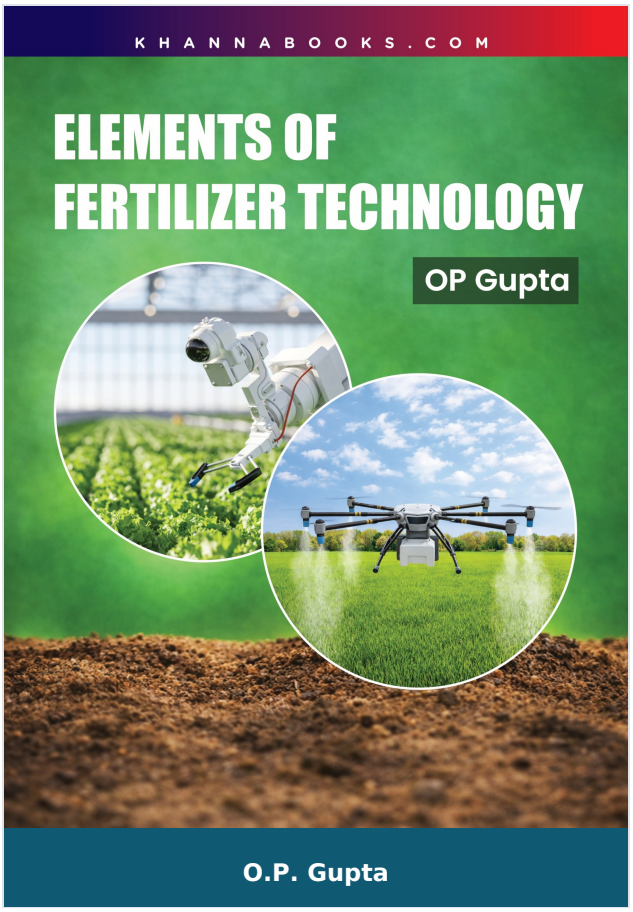
G.C. Garg

Prof. G.C. Garg retired as registrar from the Technical Education Department Haryana, Chandigarh. Before that he was Head of Deptt. In Electrical Engineering at Govt. Institution of Engineering Ambala City, Haryana. After Graduation in Electrical Engineering he has gone 2½ years regular advance course in Electrical Engineering with specialization of Electrical Machines in T.T.T.I. Chandigarh in collaboration with Netherlands Govt. under the guidance of Prof. B. Mone who was authority in Electrical Machines and Electrical Power. He has also undergone one and a half year Industrial/Power Projects/Field and Transmission & Distribution Power Stations. He is fellow of the Institution of Engineers (India).

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Elements of Fertilizer Technology

Author :	O.P. Gupta
ISBN 13 :	978-93-74549-87-2
ISBN 10 :	9374549875
E-ISBN 13 :	978-93-74549-87-2
Edition :	First
Pages :	278
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 460.00
Categories :	Chemical Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

Elements of Fertilizer Technology

Authored by chemical engineer Om Prakash Gupta, this book is a comprehensive guide covering the entire fertilizer industry-from soil science to advanced manufacturing. it details the production of key fertilizers like Urea, Nitric Acid, and NPK blends, while addressing environmental challenges like pollution control. Designed for clarity, it is an essential resource for chemical engineering students, faculty, and industry professionals, combining theoretical knowledge with practical tools like objective-type questions.

Salient Features

- **Comprehensive Nutrient Analysis**: The book provides an in-depth exploration of primary, secondary, and micronutrients, detailing their specific roles in plant metabolism, growth, and disease resistance
- **Industrial Manufacturing Processes**: It offers technical insights into the production of nitrogenous, phosphatic, and potassic fertilizers, including detailed sections on ammonia synthesis and sulfuric acid manufacture
- **Complex NPK Formulation**: Readers gain a clear understanding of compound and complex fertilizers, including the chemistry behind NPK grades and various granulation techniques used in industrial production.
- **Environmental Stewardship**: A dedicated section focuses on environmental pollution control, covering air emission prevention, wastewater treatment, and the management of hazardous byproducts like fluorides and phosphogypsum.
- **Practical Application Strategies**: The text describes diverse fertilizer application methods-such as broadcasting. placement, and foliar treatment to help maximize nutrient use efficiency and minimize environmental runoff.

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- **Sustainable Organic Perspectives**: Beyond synthetic chemicals, the book discusses organic manures and bio-fertilizers, highlighting their role in building soil organic matter and improving long-term soil fertility.
- **Assessment and Exam Prep**: To aid student learning. the book includes over 303 chapters cha of content supplemented by numerous objective and short-answer questions designed for competitive exam preparation.
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O.P. Gupta

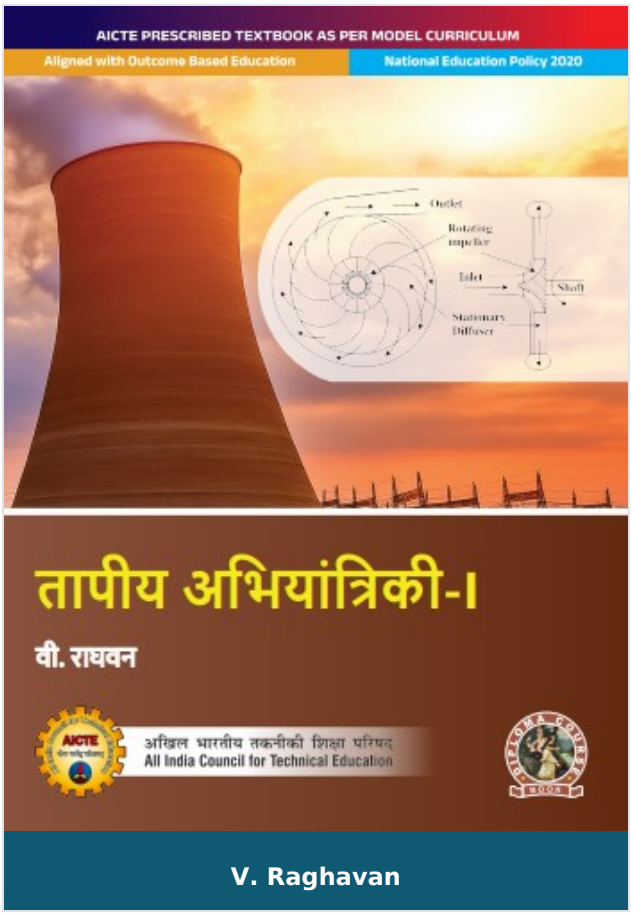
O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book 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.

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Thermal Engineering - I

Author :	V. Raghavan
ISBN 13 :	978-93-55388-46-9
ISBN 10 :	9355388462
E-ISBN 13 :	978-93-55388-46-9
Edition :	First
Pages :	196
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Thermal Engineering - I

This book introduces various energy sources; fossil and renewable fuels, their properties, followed by other non-conventional sources such as nuclear and furl cells. It discusses the types of heat engines; diesel engine, petrol engine, their working principle, components and standard thermodynamic cycles. The book provides insights of various system and IC engines such as fuel injection system, ignition system, lubricating system and also briefly covers governing of IC engines. Further this book provides basic insights of the important parameters to evaluate the performance of I.C. engines. Finally, useful discussions on the fundamentals of air compressors and their types, vapour compression refrigeration system, types of refrigerants, types of air conditioning, and seasonal air conditioning. This book also presents the method to conduct experiments for measuring Important properties used in the analysis.

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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