

Jain Dharma me Avadhana

Author :	Surbhi Bhagat
ISBN 13 :	978-93-55389-34-3
ISBN 10 :	93-55389-34-3
E-ISBN 13 :	978-93-55389-34-3
Edition :	1
Pages :	116
Year :	2025
Language :	Hindi
Publisher :	Khanna Publishing House
M.R.P :	Rs 199.00
Categories :	Education & Knowledge Systems
Condition Type :	New
Country Origin :	India

Product Description

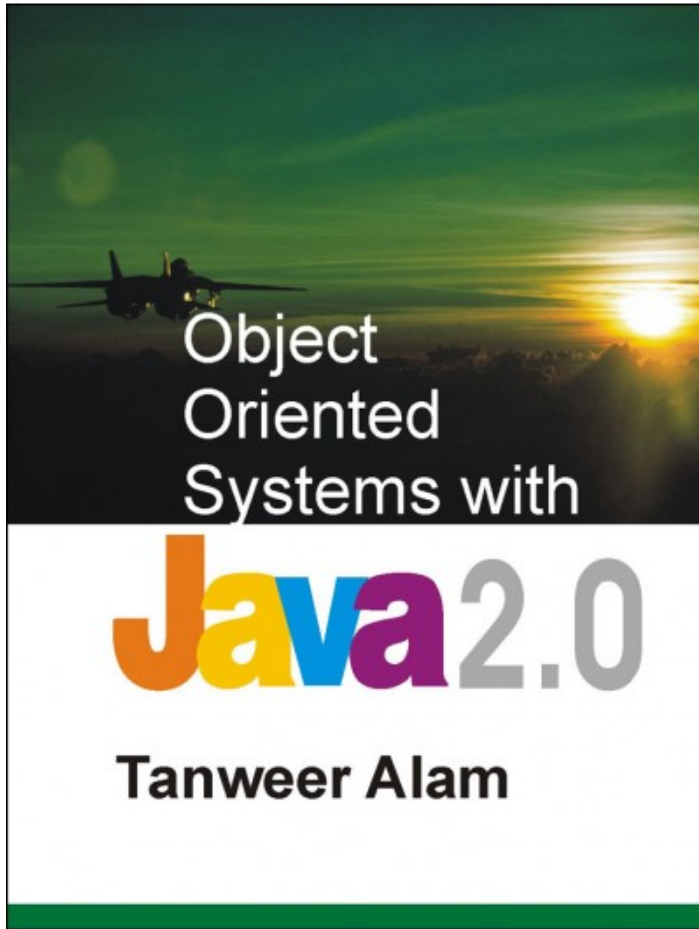
Jain Dharma me Avadhana



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Object Oriented Systems with Java 2.0

Author :	Tanweer Alam
ISBN 13 :	978-93-80016-55-9
ISBN 10 :	93-80016-55-7
E-ISBN 13 :	978-93-80016-55-9
Edition :	1
Pages :	650
Type of book :	Paperback
Year :	2018
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 345.00
Categories :	Computer Science Engineering
Condition Type :	New
Country Origin :	India

Product Description

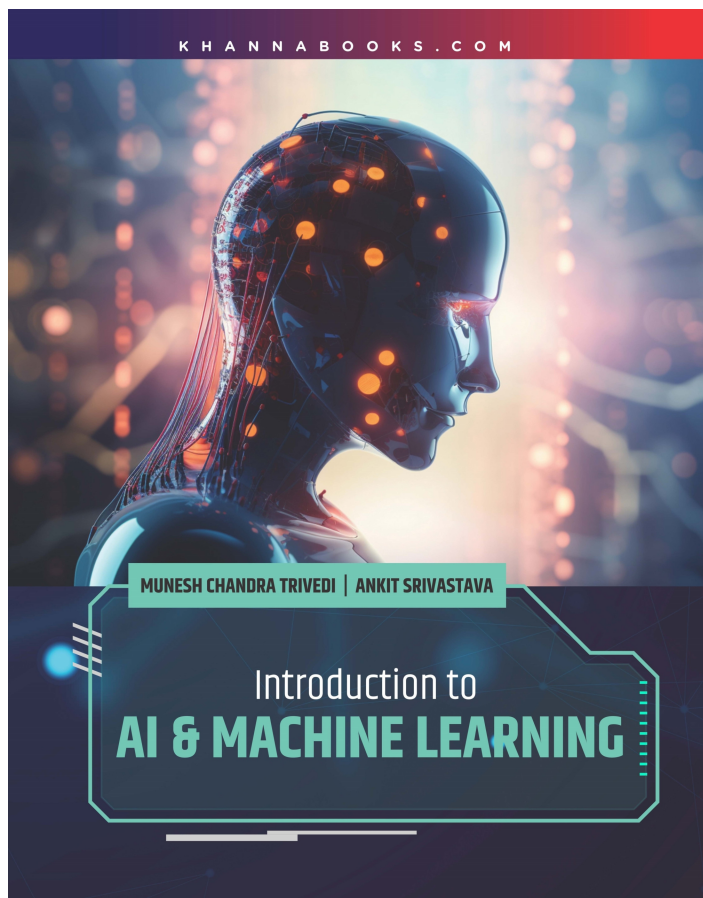
Object Oriented System with Java 2.0 Tanweer Alam



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Introduction to AI & Machine Learning

Author :	Ankit Srivastava
ISBN 13 :	978-93-55386-88-5
ISBN 10 :	93-55386-88-5
E-ISBN 13 :	978-93-55386-88-5
Edition :	1
Pages :	336
Type of book :	Paperback
Weight (g) :	500.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	Emerging Technologies
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.
5. Practical Applications: Highlights real- world applications across various industries, supported by case studies and examples.
6. Hands on Approach: Offers practical exercises and coding examples using python for a better understanding of the subject.

Table of Contents

Chapter 1: Artificial Intelligence. **Chapter 2:** (Idea of Machine Learning). **Chapter 3:** Linear Regression. **Chapter 4:** (Logistic Regression). **Chapter 5:** (Discussion on clustering). **Question Bank**

Authors

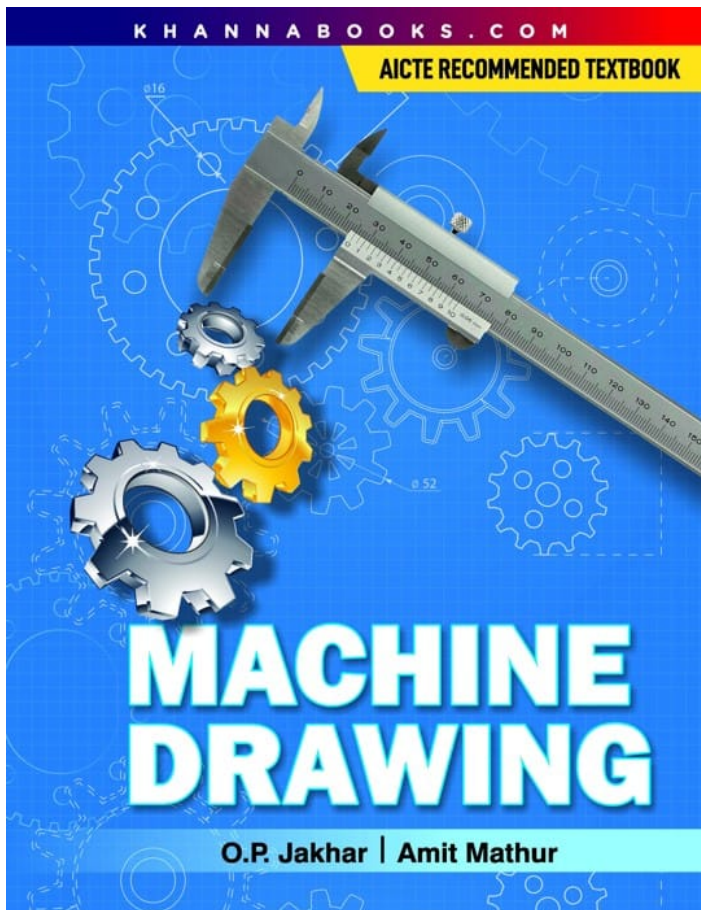
Munesh Chandra Trivedi Ankita Srivastava



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Machine Drawing

Author :	Amit Mathur
ISBN 13 :	978-93-86173-28-7
ISBN 10 :	93-86173-28-X
E-ISBN 13 :	978-93-86173-28-7
Edition :	First
Pages :	188
Type of book :	Paperback
Weight (g) :	280.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 525.00
Categories :	Mechanical Engineering , Mechanical Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book is Designed for the students of Engineering and Technology as well as specially for Mechanical Engineering Degree and Diploma students. The teaching of this course faces difficulty in explaining the various concept of machine drawing viz., orthographical projection, sectioning, complicated mechanical assembly drawing etc. Sometimes explanation requires some three dimensional and complicated drawing to be drawn on the black board which is quite impossible due to the time constraint of class. This book is an outcome of the strong need felt by students offering the course and the teaching need felt by us. The teacher can explain the related concepts, drawing methods and uses of various parts being drawn etc. in each practical class without bothering the black board. The subject matter has been compressed from the view point of Mechanical Engineering students. The book also contains Basic Drawing Softwares which describes about the basics of Auto-CAD, CATIA, PROE, ANSYS etc. which is useful for today's need of Engineering & Technology.



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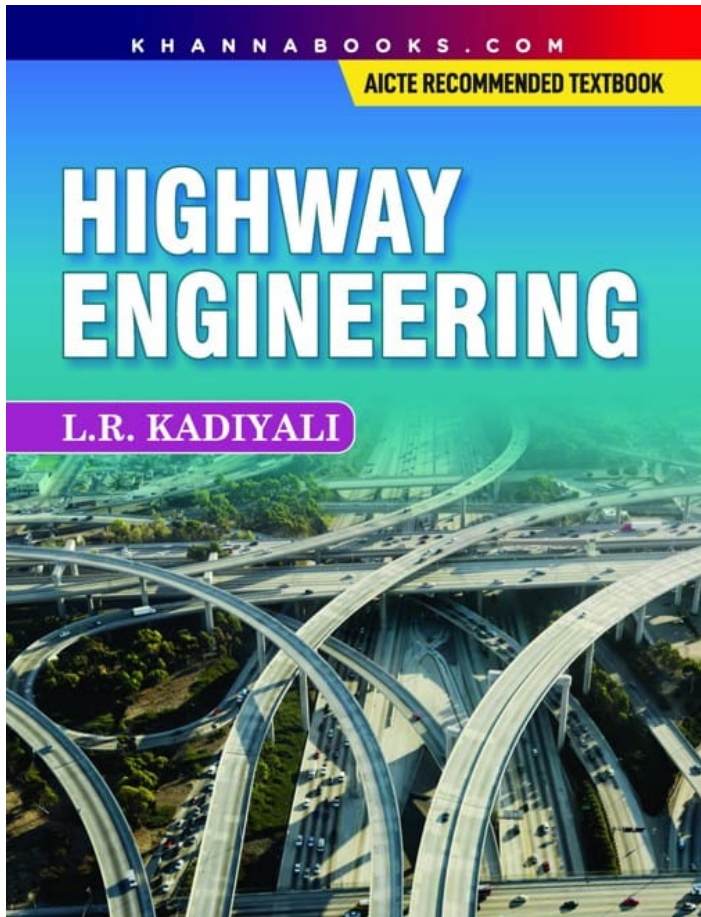
Table of Contents

Chapter 1: Basic of Machine Drawing. **Chapter 2:** Sectional Views. **Chapter 3:** Rivets and Riveted Joints. **Chapter 4:** Screw Threads and Fasteners. **Chapter 5:** Bearings & Shaft Coupling. **Chapter 6:** Assembly Drawing. **Chapter 7:** Power Transmission Drives. **Chapter 8:** Basics Drawing Software.

Authors

Dr. O.P. Jakhar: Started his teaching carrier in 2000 as lecturer in Mechanical Engineering Department as Shri Balaji College of Engineering and Technology (SBCET, Jaipur. Further he served Stani Memorial College of Engineering and Technology, Phagi, Jaipur and Ajmer Institute of Technology, Ajmer as Senior Lecturer. Dr. Jakhar joined Maharana Pratap University of Agriculture and Technology, Udaipur as Assistant Professor in 2005. At Presently he is serving at Govt. Engineering College, Bikaner as Associate Professor in Mechanical Engineering department since 2008. His areas of interested are Heat Transfer, Fluid Mechanics and Machines, Steams Power and Thermal Engineering. Dr. Jakhar is life member of ISTE and Indian Geological Congress (IGC) he has guided 10 M.Tech. dissertations and published more than 40 research papers. Dr. O.P. Jakhar got commissioned as Lieutenant in NCC in 2005 and presently he is serving as Captain at 7 Raj. BN. NCC, Bikaner. **Amit Mathur** is presently Assistant Professor & Head in the Department of Mechanical Engineering at Govt. College of Engineering & Technology, Bikaner. He has done B.E.(Mechanical Engineering) from Govt. Engineering College, Ajmer and M.E. (Manufacturing Technology) from NITTTR, Chandigarh. He has an experience of more than 10 years in the field of Teaching & Research. He has published more than 06 papers in National Conference Proceedings & Journals. He is also an Associated member of Institution of Engineers India.





Highway Engineering

Author :	L.R. Kadiyali
ISBN 13 :	978-93-86173-13-3
ISBN 10 :	93-86173-13-1
E-ISBN 13 :	978-93-86173-13-3
Edition :	First
Pages :	604
Type of book :	Paperback
Weight (g) :	800.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 525.00
Categories :	Civil Engineering , Civil Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book on Highway Engineering shall be useful for B.E./B. Tech & M.E/ M. Tech students of Civil Engineering. It shall also be useful for practicing Engineering and designers.



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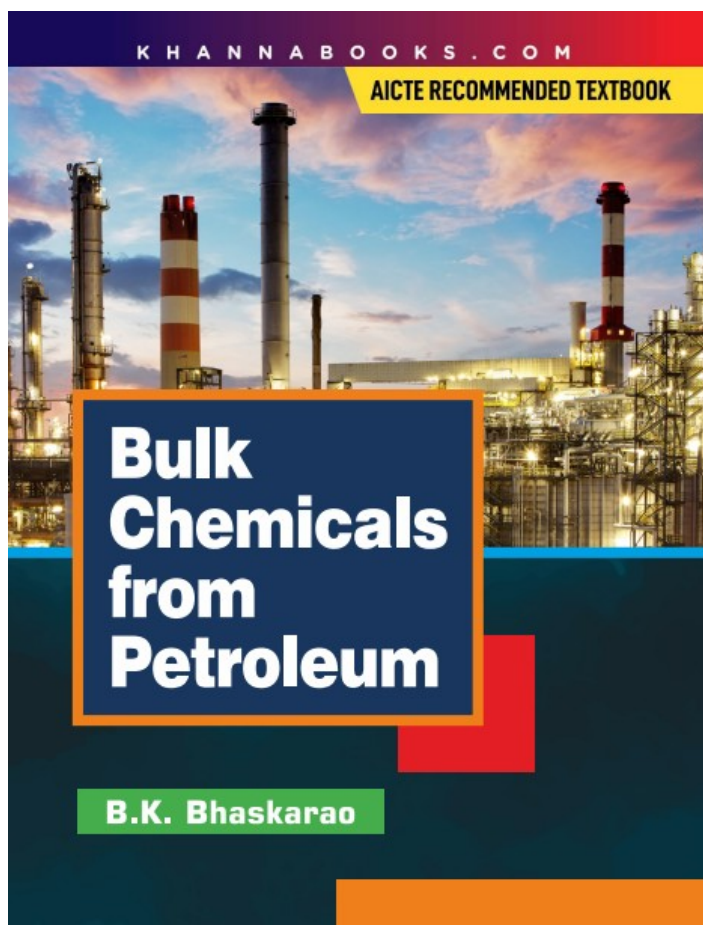
Table of Contents

Chapter 1: Development of Highways. **Chapter 2:** Highway Administration and Finance. **Chapter 3:** Road User and the Vehicle. **Chapter 4:** Geometric Design. **Chapter 5:** Design Surveys, Soils and Aggregates, Investigations and Tests. **Chapter 6:** Design, Drawing, Estimates and Projects Report. **Chapter 7:** Economic Evaluation of Highway Projects. **Chapter 8:** Embankment Design and Construction. **Chapter 9:** Types of Pavements and Factors Governing Pavement Design. **Chapter 10:** Pavement Materials. **Chapter 11:** Design of Flexible Pavements. **Chapter 12:** Rigid Pavements. **Chapter 13:** Soil Stabilization. **Chapter 14:** Granular Sub-Bases, Bases and Surface Courses. **Chapter 15:** Brick, Stone and Cement Concrete Block Pavements. **Chapter 16:** Hill Roads. **Chapter 17:** Rural Roads (Low Volume Roads). **Chapter 18:** Urban Roads **Chapter 19:** Expressways **Chapter 20:** Toll Roads. **Chapter 21:** Desert Roads. **Chapter 22:** Roads in Swampy and Water-Logged Areas and in Black Cotton Soils. **Chapter 23:** Road Construction Machinery. **Chapter 24:** Road Construction Programming and Management. **Chapter 25:** Highway Drainage. **Chapter 26:** Cross-Drainage Structures. **Chapter 27:** Road Accident and Highway Design. **Chapter 28:** Road Signs. **Chapter 29:** Road Markings. **Chapter 30:** Traffic Signals. **Chapter 31:** Highway Safety Appurtenances. **Chapter 32:** Highway Maintenance. **Chapter 33:** Pavement Evaluation. **Chapter 34:** Overlay Design and construction. **Chapter 35:** Use of Geosynthetics. **Chapter 36:** Environmental, Landscaping and Arboriculture. **Chapter 37:** Airport Engineering.

Author

Dr. L. R. Kadiyali is B.E.(Hons.), from Bombay and pursued Ph.D. from Kakatiya University. He has done P.G. diploma in Highway and Traffic Engineering from Newcastle-Upon-Tyne. He is Formerly Chief Engineer, (Roads Wing), Ministry of Road Transport & Highways, New Delhi and Study Director, Road User Coast Study, Central Road Research Institute New Delhi.





Bulk Chemicals from Petroleum

Author :	B.K. Bhaskarao
ISBN 13 :	978-93-86173-99-7
ISBN 10 :	93-86173-99-9
E-ISBN 13 :	978-93-86173-99-7
Edition :	First
Pages :	416
Type of book :	Paperback
Weight (g) :	700.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 550.00
Categories :	Chemical Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book covers petrochemical industry feedstocks, chemicals derived from C1, C2, C3, C4 & higher hydrocarbon atoms, synthesis gas & chemicals and petroleum aromatics. Besides, it contains comprehensive information pertaining to polymers which include plastics, synthetic fibers & elastomers and synthetic detergents. This book will serve as as reference material for the student, teachers and practicing engineers in th field of chemical, petroleum and petrochemical engineering.



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Table of Contents

Chapter 1: Petrochemical Industry-Feedstocks. **Chapter 2:** Chemicals from Methane. **Chapter 3:** Chemicals from Ethane-Ethylene-Acetylene. **Chapter 4:** Chemical from C₃,C₄ and Higher Carbon Atoms. **Chapter 5:** Synthesis Gas and Chemicals. **Chapter 6:** Polymers of Olefin. **Chapter 7:** Petroleum Aromatics. **Chapter 8:** Synthetic Fibers. **Chapter 9:** Synthetic Rubber. **Chapter 10:** Plastics. **Chapter 11:** Synthetic Detergents. **Chapter 12:** Petroleum Coke and Carbon Black. **Chapter 13:** Pollution and Toxicity.

Author

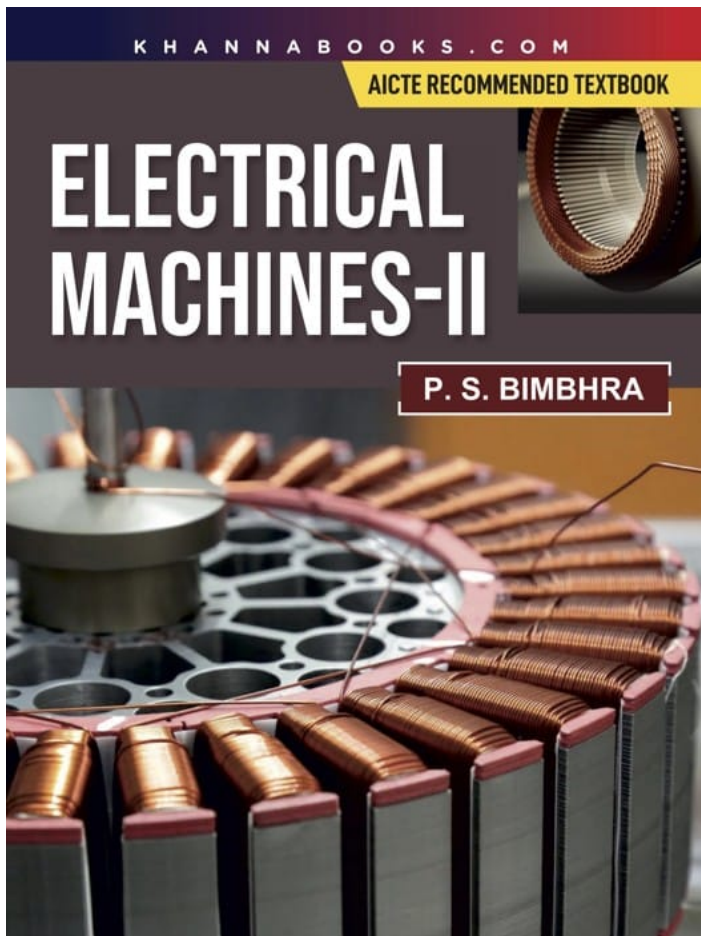
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Electrical Machines - II

Author :	P.S. Bimbhra
ISBN 13 :	978-93-86173-60-7
ISBN 10 :	93-86173-60-3
E-ISBN 13 :	978-93-86173-60-7
Edition :	First
Pages :	168
Type of book :	Paperback
Weight (g) :	250.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 332.00
Categories :	Electrical, Electronics & Communication Engineering , Electrical, Electronics & Communication Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book on "Electrical Machines-II" is intended to serve as a text book for the students of Electrical Engineering in general and for those studying in institutions where AICTE model curriculum has been adopted. This book serves as a supplement to the already published book on "Electrical Machines-I". The topics covered in this book pertain to the syllabus contents as prescribed by AICTE for the course on "Electrical Machines II". Chapter 1. Describes the fundamental of AC machine windings. Here general terms associated with armature winding are defined first. Then, air-gap mmf waves produced by concentrated and distributed windings are explained. Concepts of winding factor is also given in this chapter. Chapter 2. Describes the concepts of constant magnetic field, pulsating magnetic field and rotation magnetic field. Chapter 3. Three-phase induction motor is described in detail so far as its constructional features, principle of operation, rotor and stator equivalent circuits and torque-slip characteristics are three-phase induction generator working and doubly-fed induction machines. Chapter 4: Constructional features, principle of operation, double-revolving field theory and starting methods of single-phase induction motor are described. Chapter 5. Pertains to the analysis of three-phase synchronous machines. In this chapter both cylindrical-rotor type and salient-pole type machines are discussed in detail. Steady-state phasor diagram of each type is developed for analysis purposes. Steady-state power-angle characteristics and operating characteristics are also presented in this chapter. The book contains a large number of worked examples to highlight the principles and concepts of the topics covered in this book. Unsolved problems at the end of each chapter are included for practice. Objective type questions included at the end of each chapter will help the readers to evaluate their comprehension of the chapter topics.

Table of Contents

Chapter 1: Fundamentals of AC machine windings. **Chapter 2:** Pulsating and revolving magnetic fields. **Chapter 3:** Induction Machines. **Chapter 4:** Single- Phase Induction motors. **Chapter 5:** Synchronous machines.

Author

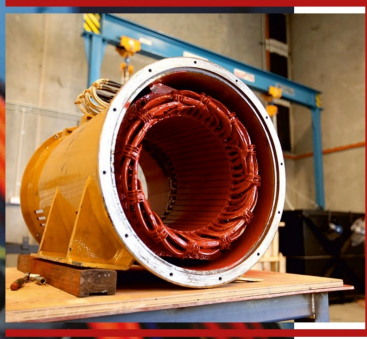
Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.



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Electrical Machines-I

G.C. Garg, P.S. Bimbhra

Electrical Machines - I

Author :	G.C. Garg
ISBN 13 :	978-93-86173-44-7
ISBN 10 :	93-86173-44-1
E-ISBN 13 :	978-93-86173-44-7
Edition :	First
Pages :	480
Type of book :	Paperback
Weight (g) :	660.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 429.00
Categories :	Electrical, Electronics & Communication Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book is written so that it serves as a text book for B.E./B. Tech degree students in general and for the institutions where AICTE model curriculum has been adopted. TOPICS COVERED IN THIS BOOK:- 1. Magnetic field and Magnetic circuit 2. Electromagnetic force and torque 3. D.C. Machines 4. D.C. Machines-Motoring and Generation SALIENT FEATURES:- 1. Self-contained, self-explanatory and simple to follow text. 2. Numerous worked out examples. 3. Well Explained theory parts with illustrations. 4. Exercises, objective type question with answers at the end of each chapter.

Table of Contents

Chapter 1: Magnetic Fields and Magnetic Circuits. **Chapter 2:** Electromagnetic Force and Torque. **Chapter 3:** The Direct Current Machines. **Chapter 4:** DC Machine-Motoring and Generation. **Chapter 5:** Transformers.

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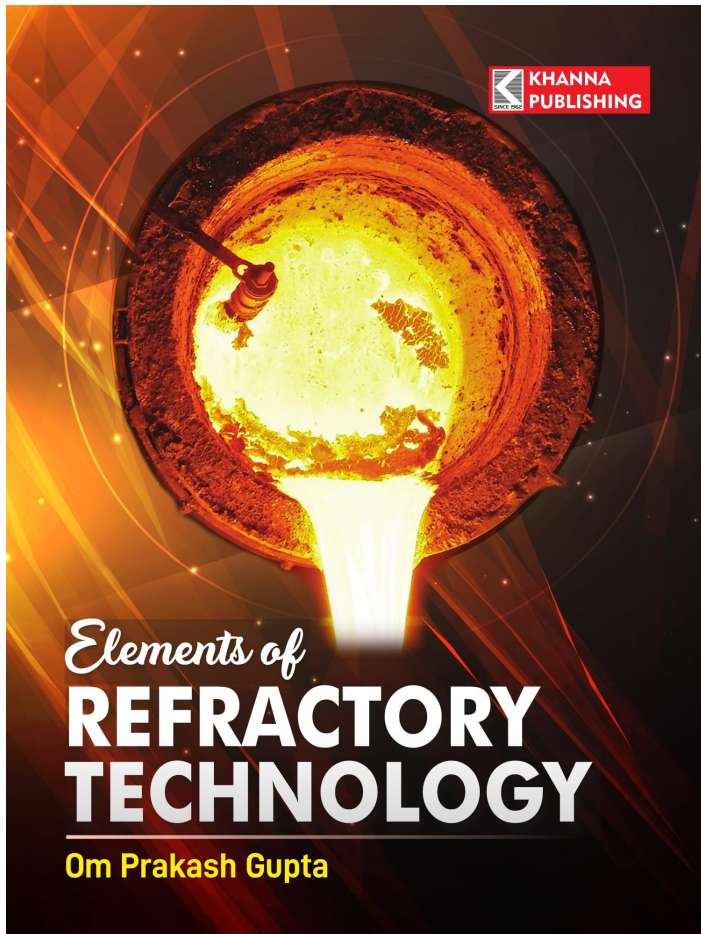


Authors

Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his M.E. (Hons.) and Ph.D. from IIT Roorkee. He is fellow of the Institution of Engineers and a life member of ISTE. His areas of current interests include Electrical Machines, Power Electronics and Electric Drives.

Prof. G.C. Garg retired as registrar from the Technical Education Department Haryana, Chandigarh. Before that he was Head of Dept. 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).





Elements of Refractory Technology

Author :	O.P. Gupta
ISBN 13 :	978-93-86173-64-5
ISBN 10 :	93-86173-64-6
E-ISBN 13 :	978-93-86173-64-5
Edition :	First
Pages :	320
Type of book :	Paperback
Weight (g) :	450.00
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 299.00
Categories :	Chemical Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book describes the essential features of refractory technology and is useful for degree & diploma courses in engineering. AMIE, AMIIM and IICHE examinations. Short question & answers and multiple choice question & answers drawn from the examination paper of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for the students.



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Table of Contents

Chapter 1: Introduction to Refractories.

Chapter 2: Manufacture, Properties and Applications of Important Refractories.

Chapter 3: Refractories used in Various Furnaces/Industries.

Chapter 4: Properties Testing of Refractory.

Chapter 5: Phase Equilibrium in Refractory materials.

Chapter-6: Insulating Refractories / Ceramic fibres.

Chapter-7: Special Refractories.

Chapter-8: Refractory - Cements/Mortars, Castables Ramming Masses.

Appendices

Appendix-A: Glossary of Terms (Related to Refractories).

Appendix-B: Short Question & Answers on Refractory Technology.

Appendix-C: Multichoice Questions & Answer on 'Refractory Technology.

Appendix-D: Technical Data on Refractories.

Appendix-E: References/Bibliography/Further Reading.

Author

Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.



AICTE Recommended Textbook as per Model Curriculum - 2018

Process Heat Transfer and Chemical Equipment Design



D.C. Sikdar


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Process Heat Transfer and Chemical Equipment Design

Author :	D.C. Sikdar
ISBN 13 :	978-93-86173-61-4
ISBN 10 :	93-86173-61-1
E-ISBN 13 :	978-93-86173-61-4
Edition :	First
Pages :	364
Type of book :	Paperback
Weight (g) :	500.00
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Chemical Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book is students friendly. It also demonstrates how to solve the industry related problems that crop up in Chemical Engineering Practice. The chapters are organized in a simple way that enables the students to acquire an in depth understanding of the subject. The emphasis is given to the Basic concept of heat transfer, conduction, Insulations, Convection, Extended surface- Fins, Dimensionless group and Dimensional analysis, Heat transfer analogy, Heat transfer with phase change, Heat transfer equipment, Design of heat transfer equipment and Radiation, all coming under the realm of Process Heat Transfer. Apart from the numerous illustrations, the book contains review questions, exercises and aptitude test in Chemical Engineering which bridge the gap between theoretical learning and practical implementation. All numerical problems are solved in a systematic manner to reinforce the understanding of the concepts. This book is primarily intended as a text book for the under graduate students of Chemical Engineering. It will also be useful for other allied branches such as, Aeronautical Engineering, Mechanical Engineering, Petrochemical, Polymer Science and Engineering, Bio-technology as well as Diploma in Chemical Engineering. Key Features: * Theoretical concept is explained with examples. * Numerical problems are solved in systematic manner to reinforce the understanding of the concepts. * Included a large number of diagrams illustrating industrial physical problems. * Only essential theory is discussed under each topic. * Stepwise procedure is given for solving problems under the topic of Chemical Equipment Design.

Table of Contents

Chapter 1: Basic Concept at Heat Transfer. **Chapter 2:** Conduction. **Chapter 3:** Insulations. **Chapter 4:** Convection. **Chapter 5:** Extended Surface- Fins. **Chapter 6:** Dimensionless Group and Dimensional Analysis. **Chapter 7:** Heat Transfer Analogy. **Chapter 8:** Heat Transfer with Phase Change. **Chapter 9:** Heat Transfer Equipment. **Chapter 10:** Design of Heat Transfer Equipment. **Chapter 11:** Radiation. **Answer to Exercise Problems Aptitude Test in Heat Transfer Index**

Author

D. C. Sikdar (Ph.D.) is an associate professor, Department of Chemical Engineering, Dayananda Sagar College of Engineering, Bangalore, with more than two and half decades of teaching experience. Prof. Sikdar has published many papers in national and international journals of repute. he has received Best Research Thesis Award from Karnataka State Bio-fuel Development Board for guiding M. Tech Thesis on "Development of Bio-Hydrogen Dependent Fuel Cell using Micro Algae" in 2012. Prof. Sikdar is also a member of Indian Society of Technical Education (ISTE) and Indian Institute of Chemical Engineers (IICE).



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ELEMENTS OF
**CHEMICAL
PROCESS
TECHNOLOGY**

O.P. GUPTA

KHANNA PUBLISHING

Elements of Chemical Process Technology

Author :	O.P. Gupta
ISBN 13 :	978-93-86173-55-3
ISBN 10 :	93-86173-55-7
E-ISBN 13 :	978-93-86173-55-3
Edition :	First
Pages :	1040
Type of book :	Paperback
Weight (g) :	1510.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 1,095.00
Categories :	Chemical Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book will be useful for degree & diploma Curriculum of Engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers(AMIE) and Indian Institute of chemical Engineers (AMIICHE) etc. Salient Features of This Book * Subject matter has been presented in simple, lucid & easy to understand language * Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers.



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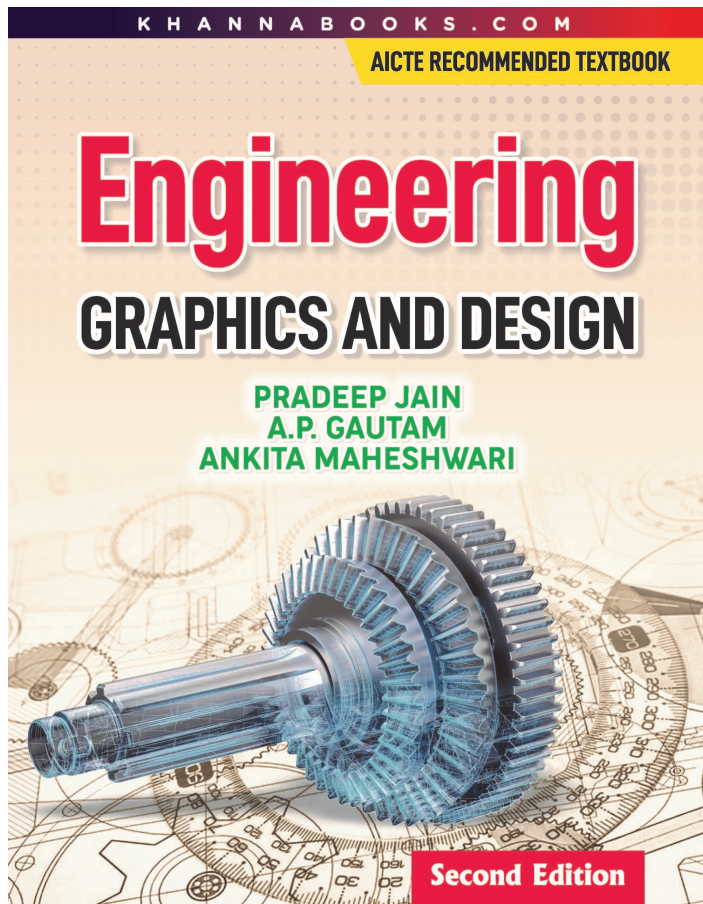
Table of Contents

Chapter 1: Water for industries and water treatment. **Chapter 2:** Acid industries: Sulphuric, Hydrochloric, Nitric and Phosphoric acids. **Chapter 3:** Alkali industries: Caustic soda, Sodium carbonate, Chlorine and Bleaching powder. **Chapter 4:** Fertilizers: Nitrogenous, phosphatic and potassic. **Chapter 5:** Glass and Ceramics. **Chapter 6:** Cement industry. **Chapter 7:** Refractories. **Chapter 8:** High Polymers- Plastics, Rubber and Fibers. **Chapter 9:** Petroleum Refinery. **Chapter 10:** Petrochemicals. **Chapter 11:** Oils and Fats: Refining, Hydrogenation, Fat splitting. **Chapter 12:** Soaps and Detergents. **Chapter 13:** Pulp and Paper industries. **Chapter 14:** Industrial fermentation- Ethyl alcohol. **Chapter 15:** Multiple choice Questions & Answers on Chemical Process Technology.

Author

Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.





Engineering Graphics and Design

Author :	A.P. Gautam
ISBN 13 :	978-93-86173-47-8
ISBN 10 :	93-86173-47-6
E-ISBN 13 :	978-93-86173-47-8
Edition :	Second
Pages :	284
Type of book :	Paperback
Weight (g) :	390.00
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 499.00
Categories :	Civil Engineering , Civil Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book covers complete syllabus of Engineering Graphics and Design along with AUTOCAD catering requirements of B.Tech. in Engineering. The book is in easy to understand, simple English. It provides step-by-step solutions to problems along with suitable example and proper drawings. Using AutoCAD and Solid Work. All chapter make learning easy with unique features such as Summary, Solved examples and Practice Problems. Chapters have been organized to present data in concise format with suitable tables, diagrams, drawings and illustration.



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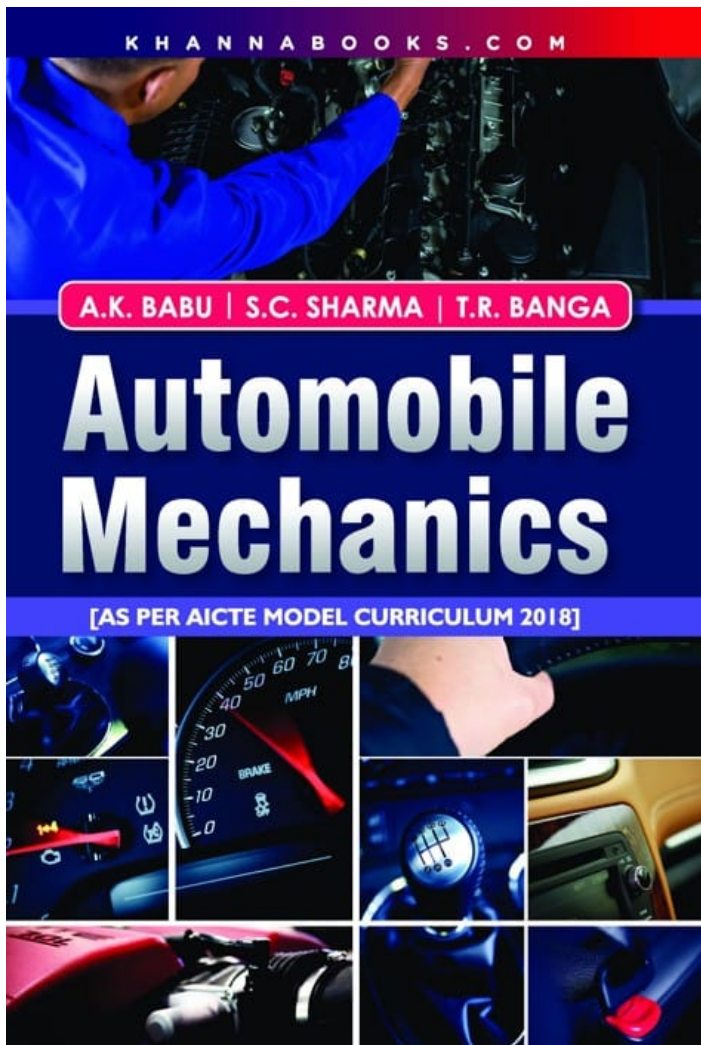
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Chapter 1: Introduction to Engineering Drawing. **Chapter 2:** Projections. **Chapter 3:** Auxiliary Planes and Views and Projections **Chapter 4:** Sectional Views. **Chapter 5:** Isometric Projections. **Chapter 6:** Overview of Computer Aided Design. **Chapter 7:** Drawing Using AUTOCAD. **Chapter 8:** Modifying Using AUTOCAD. **Chapter 9:** Customization and Productive Tools. **Chapter 10:** Dimensioning, Annotations Layering. **Chapter 11:** Solid Modelling. **Exercise Summary**

Authors

A.P. Gautam has more than five year of experience in teaching and industry. He is also providing solutions in engineering design. Presently he is working in HI Tech Institute of Engineering Technology. **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. **Ankita Maheshwari**





Automobile Mechanics

Author :	A.K. Babu
ISBN 13 :	978-93-86173-01-0
ISBN 10 :	93-86173-01-8
E-ISBN 13 :	978-93-86173-01-0
Edition :	First
Pages :	512
Type of book :	Paperback
Weight (g) :	570.00
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Automobile Engineering
Condition Type :	New
Country Origin :	India

Product Description

The book is designed to become a valid source of information to assist the student both in and out of the classroom to attain his or her objective. The structure of the text book is as follows: Chapter 1 is an introduction to the book, covering the basic information on automobiles. Chapter 2 deals with engines and their auxiliary units. Chapters 3-10 cover several aspects of design of automobile components - SI system, background mathematics and advice on problem solving, particularly exam questions. Chapters 11-15 cover essential theory part of support system for vehicles. Numerous designs and fully worked problems are provided at the end of the chapter. It is expected that as the student works through the examples and problems, he or she will develop a greater understanding of the mathematics required for engineering. To help the student develop a sound grasp of the principles covered there are many diagrams, notes and applications as an aid to develop knowledge and facilitate understanding.



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Chapter 1: Automobile. **Chapter 2:** Engine. **Chapter 3:** Frame. **Chapter 4:** Clutch. **Chapter 5:** Gearbox. **Chapter 6:** Propeller-shaft Assembly. **Chapter 7:** Final Drive and Differential Assembly. **Chapter 8:** Axle. **Chapter 9:** Steering. **Chapter 10:** Suspension System. **Chapter 11:** Brake System. **Chapter 12:** Wheel and Tyre. **Chapter 13:** Vehicle Electrical System. **Chapter 14:** Instruments and Accessories.

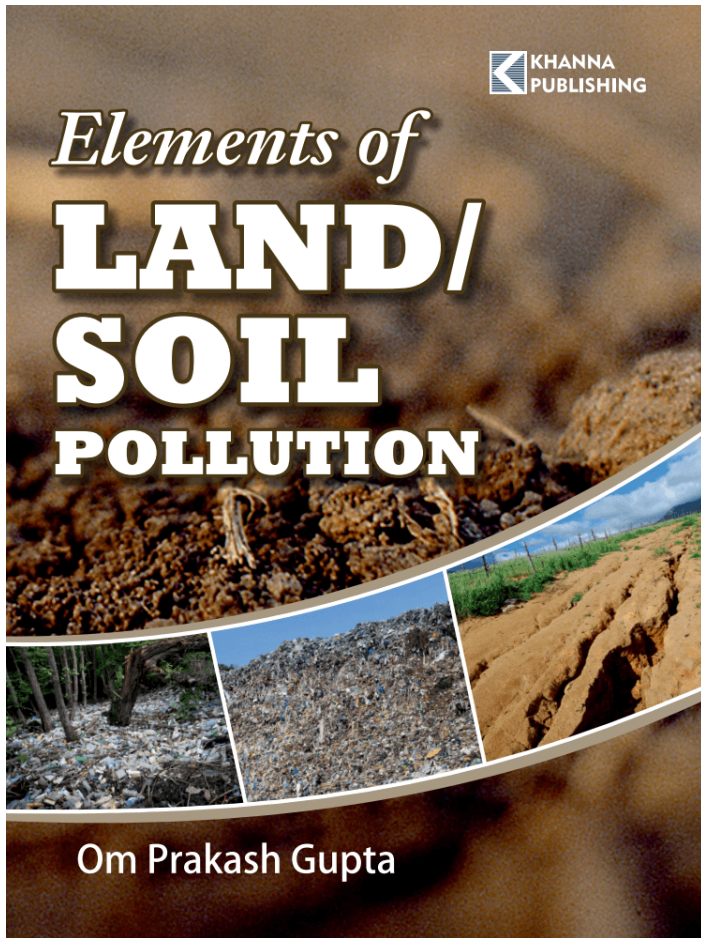
Authors

A.K. BABU is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K. BABU, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K. BABU has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

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

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Elements of Land/Soil Pollution

Author :	O.P. Gupta
ISBN 13 :	978-93-82609-73-5
ISBN 10 :	93-82609-73-3
E-ISBN 13 :	978-93-82609-73-5
Edition :	First
Pages :	208
Type of book :	Paperback
Weight (g) :	300.00
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 299.00
Categories :	Civil Engineering , Environmental Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book contains detailed description of sources, effects and control of soil pollution spanning over five chapters. Besides, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. Last chapter contains glossary of terms related to soil pollution. The book will be useful for degree & diploma curriculum of various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of metals (AMIIM), Indian Institute of Chemical Engineers (AMIIChE), etc.

SALIENT FEATURES OF THE BOOK:

Subject matter has been presented in simple, lucid & understand language. Cover all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short questions & answers and multiple choice questions & answers drawn from the examinations given at the end of the book enhances its utility for the students. Up to date statistics and glossary of terms related to the subject have been included.

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Chapter 1: All about Soil—Its Formation, Types, Components & Properties.

Chapter 2: Introduction to Soil Pollution.

Chapter 3: Causes, Types, & Sources of Soil Pollution.

Chapter 4: Effects of Land/Soil Pollution.

Chapter 5: Prevention & Control of Land/Soil Pollution.

Chapter 6: Short Questions & Answers on Soil Pollution.

Chapter 7: Multiple Choice Questions & Answers.

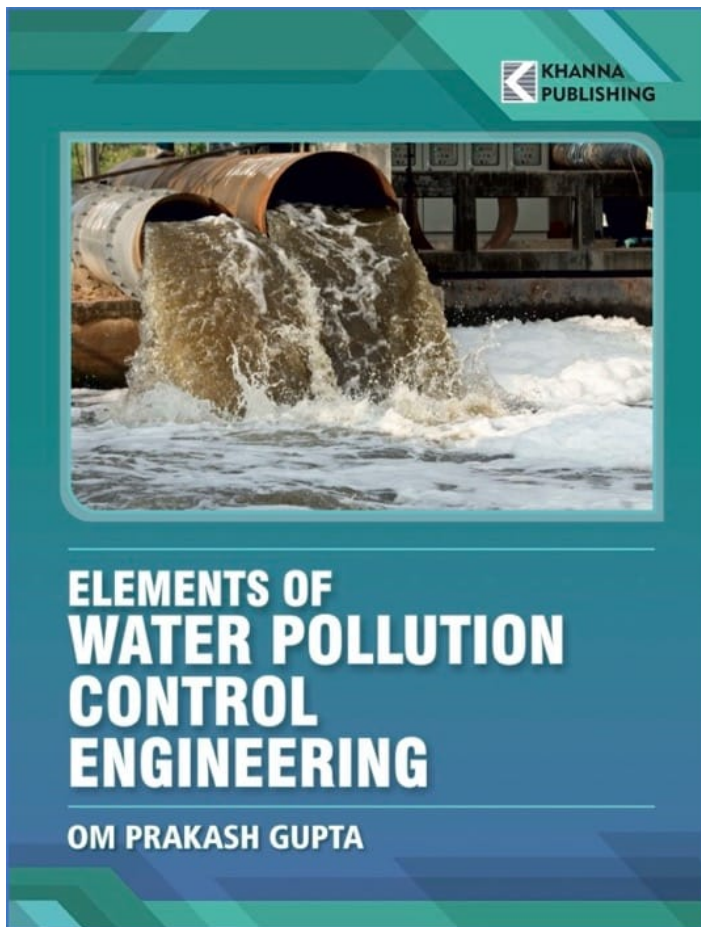
Chapter 8: Glossary of Terms Related to Soil Pollution.



Author

Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.





Elements of Water Pollution Control Engineering

Author :	O.P. Gupta
ISBN 13 :	978-93-86173-22-5
ISBN 10 :	93-86173-22-0
E-ISBN 13 :	978-93-86173-22-5
Edition :	First
Pages :	924
Type of book :	Paperback
Weight (g) :	1240.00
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	Civil Engineering , Environmental Engineering
Condition Type :	New
Country Origin :	India

Product Description

The book contains twelve chapters followed by appendices (meant for specific target reader groups) pertaining to complete domain of water pollution control engineering. Beside, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. the book will be useful for degree & diploma curriculum or various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of Metals (AMIIM), Indian Institute of Chemical Engineers (AMIICHE), Institute of Chemist etc. It will also be equally useful for M.Sc. & B.Sc. students. SALIENT FEATURES OF THE BOOK: Subject matter has been presented in simple, lucid & easy to understand language. Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short question & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for students. Up to date statistics and glossary of terms related to the subject have been included.

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Chapter 1: Introduction to Water Pollution. **Chapter 2:** Characteristics and Properties of Water. **Chapter 3:** Purification of Water/Water Treatment. **Chapter 4:** Sources, Effects and Control of Water Pollution. **Chapter 5:** Waste Water/Sewage Treatment. **Chapter 6:** Industrial Waste Water and Its Treatment. **Chapter 7:** Water Quality and Standards. **Chapter 8:** Water Related Disease. **Chapter 9:** Thermal Pollution of Water. **Chapter 10:** Water Management. **Chapter 11:** Water Pollution Control Acts & Rules. **APPENDIX - A Appendix- B**

Author

Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.



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2
EDITION

PROFESSIONAL ETHICS AND HUMAN VALUES

Professional Ethics and Human Values

Author :	Premvir Kapoor
ISBN 13 :	978-93-55387-05-9
ISBN 10 :	93-55387-05-9
E-ISBN 13 :	978-93-55387-05-9
Edition :	2
Pages :	232
Type of book :	Paperback
Weight (g) :	300.00
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	APPLIED SCIENCES & HUMANITIES, APPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

Product Description

The book explain the concept of Business Ethics and Human Values in proper Perspective and shall make the readers realise the important of value and ethics in business and provide them a framework to take ethical decisions by following a life of values a person develop certain fine qualities hope honesty, courage, confidence, maturity, helpfulness and achieve aspiration dream by using the right way of thinking and doing.



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Chapter-3: Business Ethics.

Chapter-4: Professional Ethics.

Chapter-5: Environmental Degradation and Control.

Chapter-6: Science of Living (Jeevan Vigyan).

Chapter-7: Value Education.

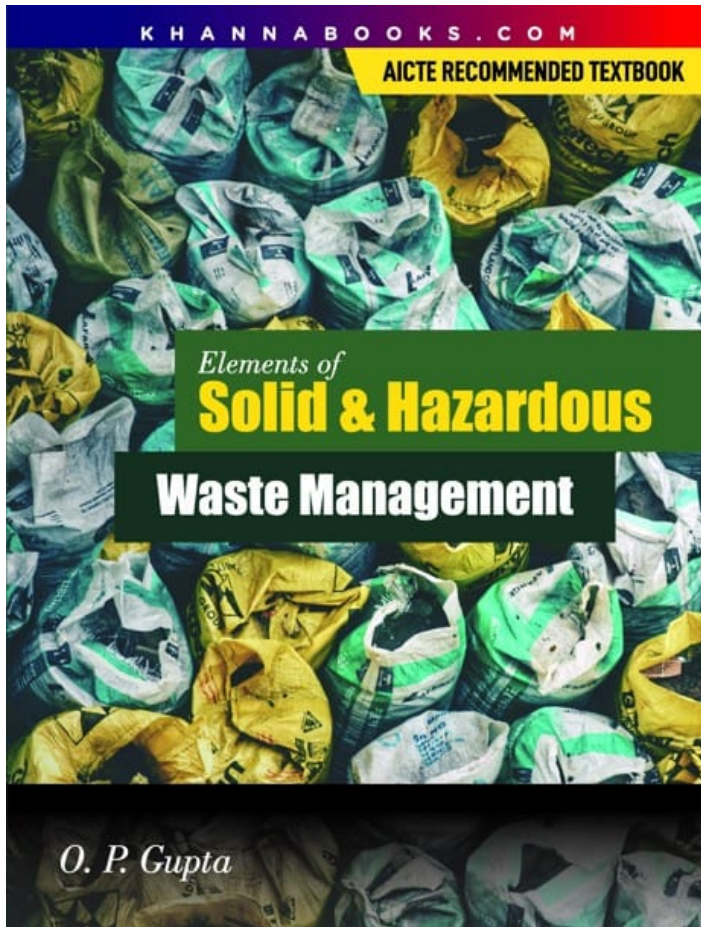
Chapter-8: Personality and Stress Management.

Chapter-9: Review Questions.

Author

Dr. Premvir Kapoor BBM(BHU), MBA(Podar Institute of Management), LLB Delhi, Ph.D(Meerut University), Diploma in Training and Development, ISTD New Delhi, Diploma in Corporate Laws and Secretarial Practice(Indian Law institute New Delhi). He has worked s Director in Sri Ram Institute of Management and IIMT Institute of Management, Greater Noida and Professor of Human Resource Management at IMS Ghaziabad and Lingaya University Faridabad. He has been associated with some of the leading Institutes of Company Secretaries of India, Institute of Marketing management, Western U.P Productional Council. He is a member of Indian Law Institute, New Delhi. He has been visiting faculty at various prestigious business schools.





Elements of Solid & Hazardous Waste Management

Author :	O.P. Gupta
ISBN 13 :	978-93-82609-75-9
ISBN 10 :	93-82609-75-X
E-ISBN 13 :	978-93-82609-75-9
Edition :	First
Pages :	392
Type of book :	Paperback
Weight (g) :	570.00
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	Environmental Engineering , Environmental Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book describes the essential features of Solid & Hazardous Waste Management covering the following topic:

1. Introduction to Solid Waste Management. 2. Municipal Solid Waste (MSW) Management . 3. Industrial Solid Waste Management. 4. Radioactive Waste (BMW) Management. 5. e- Waste Management. 6. Integrated Solid Waste Management (ISWM).

Besides, Short question & answers and multiple-choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examination given at the end of the book enhances its utility for the students.

The book will be useful for degree, postgraduate & diploma courses in engineering, AMIE, AMIIM & AMMIICHE examinations.



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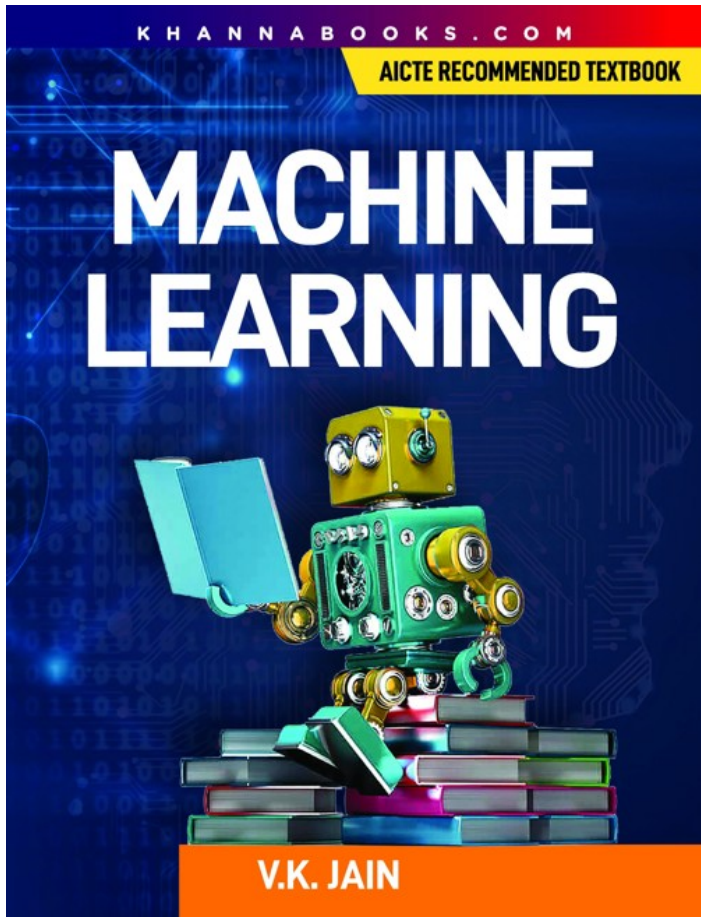
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- Chapter 1:** Introduction to Solid Waste Management.
- Chapter 2:** Municipal Solid Waste (MSW) Management.
- Chapter 3:** Industrial Solid Waste Management.
- Chapter 4:** Hazardous Waste Management.
- Chapter 5:** Radioactive Waste Management.
- Chapter 6:** Biomedical Waste (BMW) Management.
- Chapter 7:** E- Waste Management.
- Chapter 8:** Integrated Solid Waste Management.
- Chapter 9:** Short Q&A on Solid Waste Management (ISWM).
- Chapter 10:** Multiple Choice Q & A in Solid Waste Management.
- Chapter 11:** Glossary of Terms Related to Solid & Hazardous.
- References/Bibliography/Further Reading**
-

Author

Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.





Machine Learning

Author :	V.K. Jain
ISBN 13 :	978-93-86173-66-9
ISBN 10 :	93-86173-66-2
E-ISBN 13 :	978-93-86173-66-9
Edition :	First
Pages :	352
Type of book :	Paperback
Weight (g) :	500.00
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 399.00
Categories :	Computer Science Engineering, Computer Science Engineering, Emerging Technologies
Condition Type :	New
Country Origin :	India

Product Description

Machine Learning employs techniques and theories drawn from many fields within the broad areas of mathematics, statistics, information science, and computer science, in particular from the sub-domains of machine learning, classification, cluster analysis, data mining, database, and visualization. Machine learning is perhaps the hottest thing in Silicon Valley right now, especially deep learning. We have Google's class on Tensor Flow, which teaches you everything you need to know to work in Silicon Valley's top companies. The reason why it is so hot is because it can take over many repetitive, mindless tasks. It'll make doctors better doctors, and lawyers better lawyers and it makes cars drive themselves. For example, when you're booking a taxi, you're shown how much the trip would cost. Or when you're on the trip, you're shown the path the taxi would take to reach your destination. While booking a ride on Uber, you're always told the amount of time the trip would take and how much it would cost. All of that, is Machine Learning! The overall goal of this book "Machine Learning" is to provide a broad understanding of various faces of Machine Learning environment in an integrated manner. It covers the syllabi of all technical universities in India and abroad. The first edition of this book is also been awarded by AICTE and placed in AICTE's latest Model Curriculum in Engineering & Technology as well as Emerging Technology.

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Unit 1: Supervised Learning (Regression/Classification). **Unit 2:** Unsupervised Learning. **Unit 3:** Evaluating Machine Learning Algorithms and Model Selection. **Unit 4:** Sparse Modelling and Estimation. **Unit 5:** Scalable Machine Learning (Online and Distributed Learning). **Unit 6:** Unsupervised Learning. **Annexure 1:** Working With R Programming Languages



Author

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 Equipment, 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 Institute 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 consultant 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.

