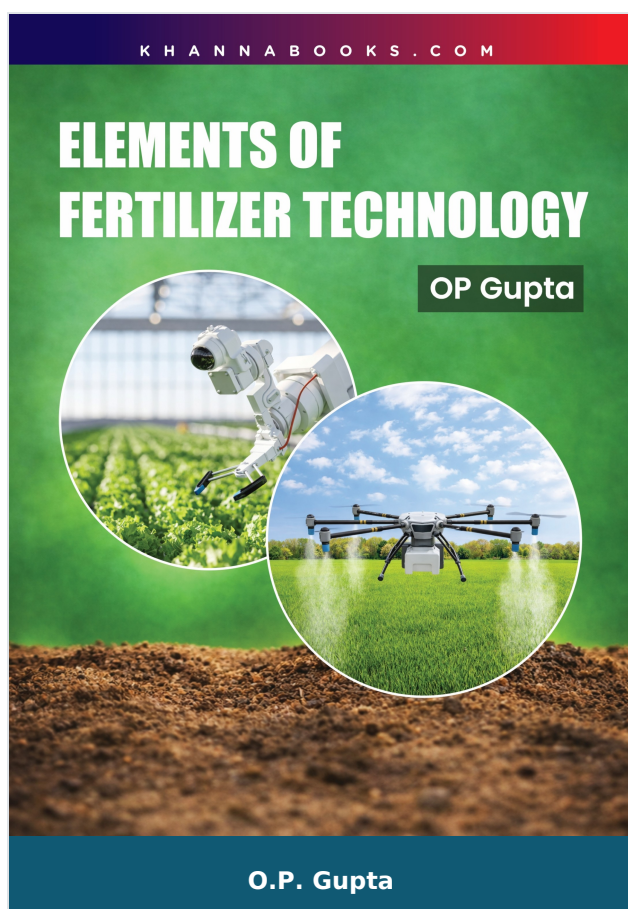




Elements of Fertilizer Technology

Author : O.P. Gupta

ISBN 13 : 978-93-74549-87-2

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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

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.

- **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.
- **Technical Glossary and References:** A robust glossary of industry terms and a factsheet on fertilizer application provide quick-reference value for both students and practicing engineers.

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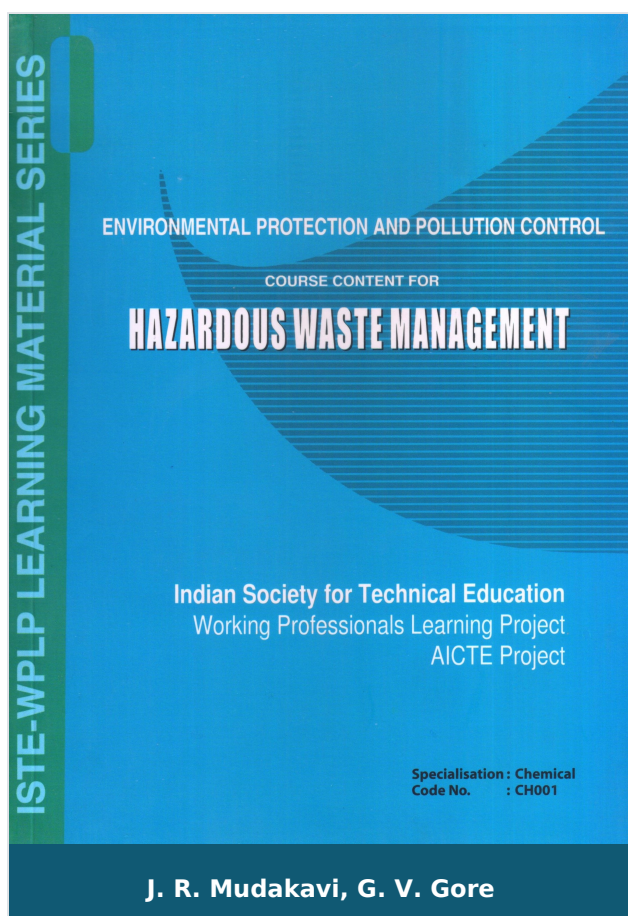
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- SECTION C
- : PHOSPHATE FERTILISER
- SECTION D
- : POTASSIC FERTILISER
- SECTION E
- : COMPOUND/COMPLEX/ NPK FERTILISER
- SECTION F
- : APPENDICES

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.



Hazardous Waste Management

Author : J. R. Mudakavi, G. V. Gore

ISBN 13 : 978-93-55385-07-9

ISBN 10 : 9355385072

E-ISBN 13 : 978-93-55385-07-9

Edition : 1

Pages : 356

Type of book : Physical

Year : 2006

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 499.00

Categories : [Chemical Engineering, Book Store, ISTE Series](#)

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

Environmental control is basically concerned with providing clean air and water, Since 1950's this concern has expanded into a wide range of activities, needing to find long lasting solutions for problems of global implications. One such topic is, Hazardous Waste Management. Typical solution to this problem involves, Monitoring, Treatment, Safe handling and Development of Control Technology. Thus, a new breed of scientists and technologists capable of dealing with transport, management and disposal of hazardous wastes is the need of hour.

Hazardous Waste Management problems are essentially divided into Management of currently generated wastes and pre-existing dump sites. Both these options have created a demand for trained Professional and Technologists to assess, monitor, design and implement suitable techniques for Hazardous Waste and Control. This module aims to fulfill this need.

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- J. R. Mudakavi
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- G. V. Gore

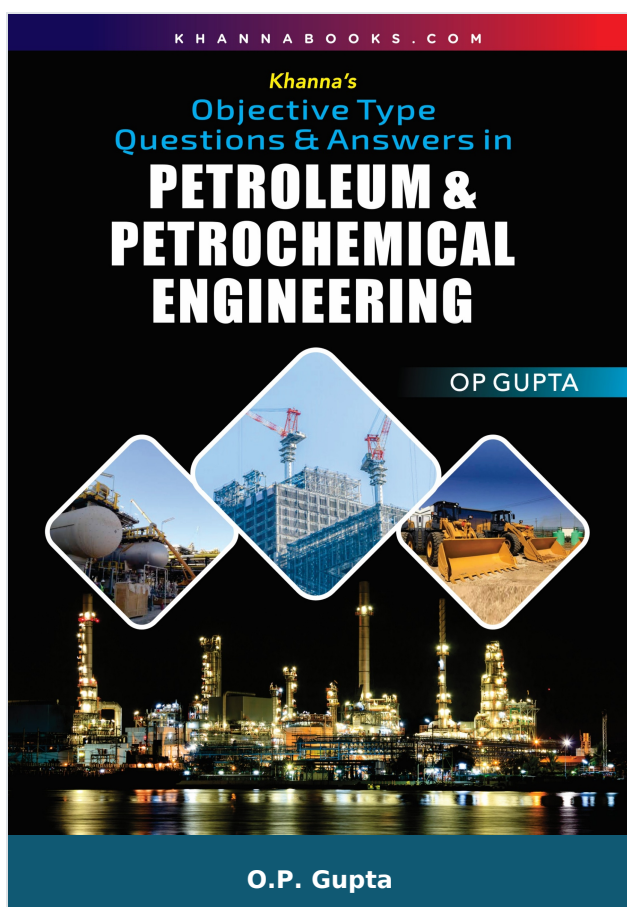
Author

J. R. Mudakavi

Dr. J. R. Mudukavi G. V. Gore

G. V. Gore

G. V. Gore



Khanna's Objective Type Questions & Answers in Petroleum & Petrochemical Engineering

Author :	O.P. Gupta
ISBN 13 :	978-93-74543-20-7
ISBN 10 :	9374543206
E-ISBN 13 :	978-93-74543-20-7
Edition :	First
Pages :	256
Type of book :	Physical
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 398.00
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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

Objective Type Questions and Answers in Petroleum & Petrochemical Engineering is a comprehensive academic resource designed to provide a deep and structured understanding of the oil and gas industry. Authored by Om Prakash Gupta, a seasoned expert with extensive industrial experience at Bokaro Steel Plant, this book serves as an essential guide for mastering the technical nuances of petroleum refining and petrochemical manufacturing. Its core theme revolves around bridging the gap between theoretical engineering principles and their practical applications in the energy sector.

The book is meticulously divided into two primary sections: Petroleum Engineering and Petrochemical Engineering. Each part features a rich repository of objective-type questions, detailed short-answer explanations, and a specialized glossary of terms to ensure a holistic learning experience. By covering critical topics such as crude oil properties, refining processes like cracking and reforming, and the synthesis of polymers and elastomers, the text provides the practical value needed to excel in both academic and professional environments.

Salient Features

- **Dual-Domain Coverage:** The text provides a balanced and exhaustive exploration of both Petroleum and Petrochemical Engineering, ensuring students gain expertise in the entire hydrocarbon value chain.
- **Examination-Oriented Design:** Prepared in strict accordance with the latest academic and professional syllabi, making it a perfect companion for AMIE, AMIICHE, and university-level competitive exams.
- **Extensive Question Bank:** Includes a vast collection of objective-type questions with detailed answers, designed to test and reinforce the reader's grasp of fundamental and advanced engineering concepts.

- **Detailed Conceptual Explanations:** Features structured short-answer questions that delve into the "why" and "how" behind industrial processes, such as catalytic hydrotreating and solvent dewaxing.
- **Comprehensive Technical Glossaries:** Each section concludes with a dedicated glossary of related terms, providing quick-reference definitions for essential industry terminology and jargon.
- **Focus on Modern Refining:** Covers cutting-edge industrial processes including catalytic reforming, alkylation, and the production of specialized fuels like Aviation Turbine Fuel (ATF).
- **Industrial Process Insights:** Provides practical knowledge on refinery operations, from the detection of petroleum deposits to the final blending of hydrocarbons and chemical additives.
- **Polymer Science Integration:** Explores the petrochemical sector's role in creating essential materials, including plastics, rubbers, and synthetic fibers, highlighting their real-world manufacturing routes

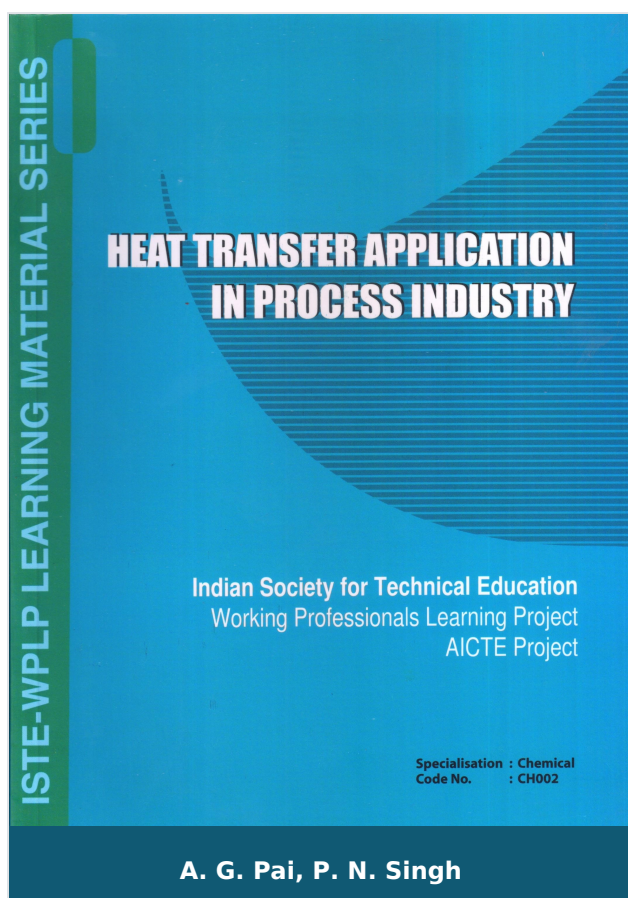
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 - B. Short Answer Type Questions in Petroleum Engineering
 - C. Miscellaneous Questions in petroleum Engineering
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 - B. Short Answer Type Questions in Petrochemical Engineering
 - C. Glossary Of Petrochemical Engineering

Author

O.P. Gupta

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Heat Transfer Application in Process Industry

Author : A. G. Pai, P. N. Singh

ISBN 13 : 978-93-55387-98-1

ISBN 10 : 9355387989

E-ISBN 13 : 978-93-55387-98-1

Edition : 1

Pages : 156

Type of book : Physical

Year : 2006

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 225.00

Categories : [Chemical Engineering, Book Store, ISTE Series](#)

Condition Type : New

Country Origin : India

Product Description

Heat transmission is very common and familiarly occurs in our daily life, so much that we tend to accept the process for granted and only think of its glaring manifestations and effects. We use our physical intuition to interpret thermal phenomena, and our reactions to hot and cold substances or the environment becomes voluntary. However, when heat transmission is considered from a quantitative point of view, it becomes quite clear that mechanism of heat transfer and their operations in a given system are not so trivial. Though there is evidence of use of fire by cave men about half a million years ago, yet only in relatively recent times the people have understood that heat is a form of energy in transit and that temperature is a measure of that energy present in a body. The importance of intelligent and judicious use of heat energy has been understood only recently when people have realized that source of heat energy such as coal, gas, and oil are not sufficient to sustain the economic development of the modern society.

Energy saved is energy generated. Process industries being leading consumers of heat energy, it is imperative on the part of the Managers of Process industries, to take all possible steps to minimize the wasteful use of this scarce resource. The text is intended to provide a good understanding of the basic concepts of heat transfer and enhance the skills of the operators and engineers running not only process industries using heat transfer equipment. It is targeted towards the working professionals who are diploma holders in engineering and graduates in science/engineering manning process industries. Emphasizing focuses upon, the ability to run heat transfer equipments efficiently, by bringing heat loss to unavoidable level.

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- A. G. Pai
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- P. N. Singh
- P. N. Singh

Author

A. G. Pai

Mr. A. G. Pai, is presently the General Manager (Projects) at Mangalore Refinery and Petrochemicals Ltd. Mangalore. He received his B. E. in Chemical Engineering from National Institute of Technology Karnataka (formerly known as K. R. E. C.), Surathkal and P. G. Diploma in Business Management. He has overs 25 years of industrial experience in running mega industrial trainings in various countries like USA, Germany, France, UK, and Malasytsia. The author is deeply indebted to his mother and all his teachers who have been the source of inspiration in his life. Dr.

P. N. Singh

Dr. P. N. Singh is the Director (Retired), National Institute of Technology Karnataka, Surathkal. He is basically a Chemical Engineer and has over decades of experience in teaching and research related to processes industries. The coauthor, Mr. S. R. Bhat, is presently working as Group General Manager (Instrumentation) at Mangalore Refinery and Petrochemicals Limited, Mangalore. He graduate in Chemical Engineering from Indian Institute of Technology, Chennai. Atomic Research centre, for seven years. Later he worked for Humphreys and Glasgow Consultants, for three years. He ha also worked for Uhde India Limited, for seven years. For the last sixteen years, he has been working for Mangalore Refinery and Petrochemicals in various capacities. He has introduced many

innovative ideas in running the process plants, particularly in the areas of instrumentation and control.



Paper Technology and System Design

Author :	Susanta Kumar
ISBN 13 :	978-93-55389-00-8
ISBN 10 :	9355389000
E-ISBN 13 :	978-93-55389-00-8
Edition :	First
Pages :	376
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	Chemical Engineering, New Arrivals, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Paper Technology and System Design

Salient Features of the book

- Highlights the valuable role of knowledge in papermaking techniques and basic engineering.
- Explores advanced technologies and the latest developments in paper manufacturing.
- Draws from the authors' hands-on experience in design and operation of paper plants
- Covers the evolution of plant and machinery from the 18th century to the present day.
- Details process parameters and technical know how presented plant wise with block diagrams.

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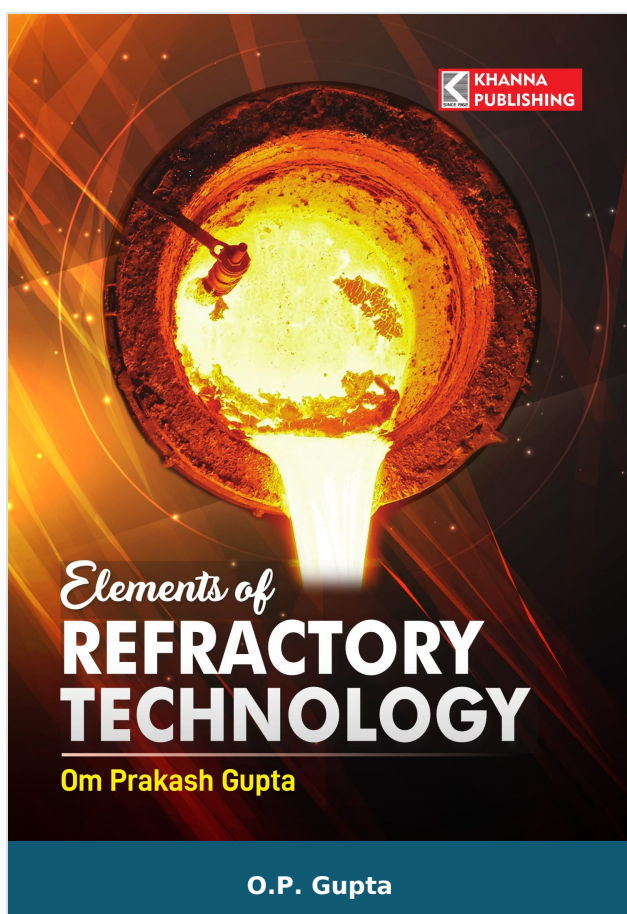
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- Paper and paper board size and calculation
- Coating and coating chemicals
- Recycling of Paper
- Deinking Method
- Water Treatment
- Effluent Treatment
- Energy Optimization in Pulp and Paper sector
- Laboratory and testing method
- Instrumentation
- Project cost Estimate
- Printing Process Ink Paper and Nano Technology

Author

Susanta Kumar

Susanta Kumar De was born in Calcutta. He was qualified B. Sc and Paper Technology from city and guilds London Institute. He was the member of Faculty, paper setter and examiner of paper technology in the printing Engineering Department of Jadavpur University Calcutta from the year 1970 to 2002. He served 27 years in the paper and process department of Development Consultants Private Limited (DCPL) from the year

1970 to 1996. He became Chief Engineer of P & P Cell DCPL and also worked 10 years in different paper mills in India and abroad from the year 1959. His main assignment in DCPL was system design. Basic engineering operation, commission of different paper and board mill including write up techno-economic feasibility reports. He took active part particularly in the department of stock preparation paper machine and finishing department of Kerala Newsprint (250 TPD). Nowgon and Cachher paper mills, (150 TPD each), Century Board Mill, (100 TPD) Egg Tray and Apple Project (30 TPD). During his service in DCPL he was the project co-ordinator of Tribeni Tissue Mill, W.B for Energy Study and Audit. He was deputed to capital pulp and Paper mill Bangladesh from Indo German Paper Project as technical advisor for installation of imported tissue machine and MG. Kraft Machine in the Year 1997 to 1999. He was the member of India Technical Association of pulp and Paper and participated various Seminars at the time of his service Period



Elements of Refractory Technology

Author :	O.P. Gupta
ISBN 13 :	978-93-86173-64-5
ISBN 10 :	9386173646
E-ISBN 13 :	978-93-86173-64-5
Edition :	First
Pages :	320
Type of book :	Physical
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 299.00
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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 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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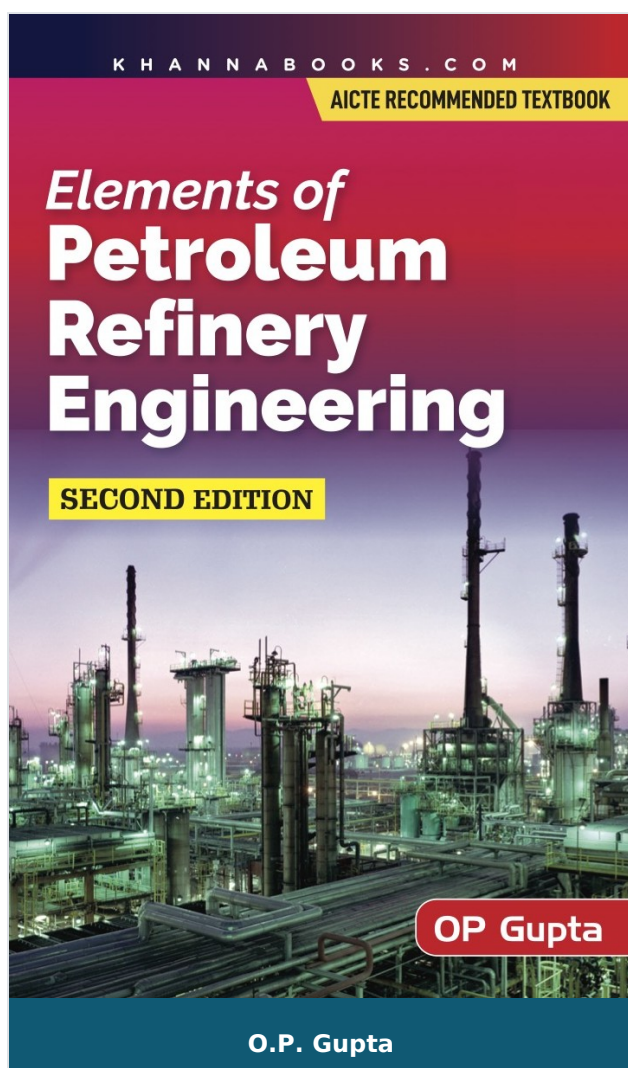
- Chapter-1: Introduction to Refractories
- Chapter-2: Manufacture, Properties and Applications of Important Refractories
- Chapter-3: Refractories used in Various Furnaces/Industries
- Chapter-4: Properties Testing of Refractory
- Chapter-5: Phase Equilibrium in Refractory materials
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- Chapter-7: Special Refractories
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Author

O.P. Gupta

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Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.



Elements of Petroleum Refinery Engineering

Author :	O.P. Gupta
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E-ISBN 13 :	978-93-82609-72-8
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Language :	English
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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 prepared in a simple, lucid & easy understandable language with special emphasis on crude oil refining technologies and scenario in Indian context. This book is meant for the students, teachers, practicing engineer, consultants and policy makers on petroleum refining. Extensive use of Internet resources has been made in gathering the relevant information and the subject matter has been presented in a simple lucid manner for easy understanding of the subject.

This book is targeted to benefit the following:

1. Diploma in engineering students.
2. Degree in engineering students (B. Tech (Chemical Engineering,) B. Tech (Petroleum Engineering, B. Tech (Petrochemical Engineering), B. Tech (Aeronautical Engineering), AMIE, AMIICHE, Students etc.
3. Tech students of various disciplines pursuing courses on petroleum refining.
4. Faculty members/ Teaching staff of Engineering colleges/IIT's/NIT's etc.
5. Practicing petroleum engineers/consultants/refiners in various private sector/ public sector undertakings, state/ central government departments, NGO's etc.
6. Students of foreign universities of developing countries pursuing diploma/ degree/ postgraduate courses in various engineering disciplines having a paper in petroleum refinery engineering.
7. The scope and coverage of the 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.

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- Purification of Petroleum Products
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- Storage and Handling of Petroleum Product
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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.