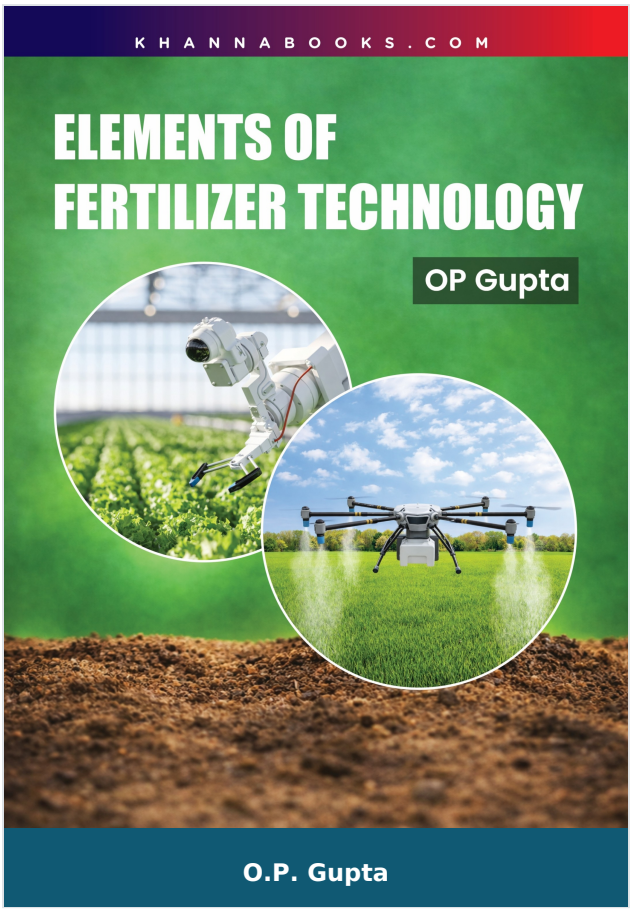


Elements of Fertilizer Technology

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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.
- **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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- : POTASSIC FERTILISER
- SECTION E
- : COMPOUND/COMPLEX/ NPK FERTILISER
- SECTION F
- : APPENDICES

Author

O.P. Gupta

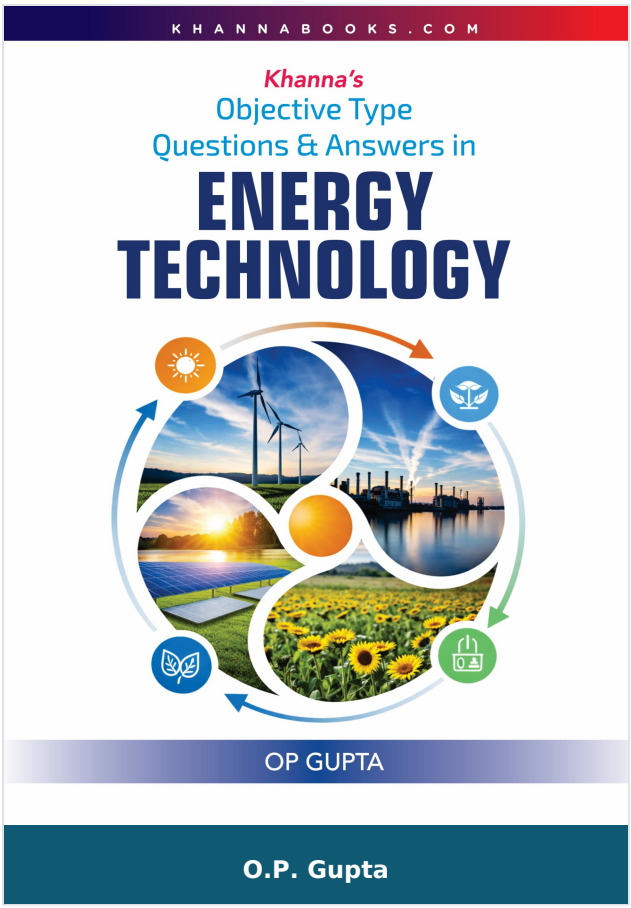
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steel plants in 1987.



Khanna's Objective Type Questions & Answers in Energy Technology

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Product Description

Objective Type Questions and Answers in Energy Technology is a comprehensive academic resource designed to bridge the gap between theoretical knowledge and practical application in the field of energy. Authored by Om Prakash Gupta, a veteran professional with extensive experience at the Bokaro Steel Plant, the book serves as an essential guide for mastering the complexities of energy systems, fuels, and conservation. Its core theme revolves around providing a structured approach to understanding both conventional and renewable energy technologies through a vast collection of multiple-choice and short-answer questions.

The book's primary purpose is to assist students and professionals in preparing for high-stakes examinations, covering a diverse array of topics from thermal power generation and industrial boilers to cutting-edge renewable sources like solar, wind, and nuclear fusion. It is specifically tailored for diploma, degree, and postgraduate engineering students, as well as candidates appearing for professional membership examinations such as AMIE, AMIIM, and AMIICHE. Additionally, it serves as a valuable reference for aspiring Energy Managers and Auditors preparing for Bureau of Energy Efficiency (BEE) certifications. With its clear explanations and wide-reaching scope, this book offers immense practical value for anyone looking to excel in the energy sector.

Salient Features

• Exhaustive Topic Coverage: The book spans 33 comprehensive chapters, covering everything from basic energy scenarios and combustion technology to advanced topics like Magneto Hydro Dynamic (MHD) generators.

• Dual-Section Format: The content is strategically divided into Section A, featuring extensive objective-type questions for rapid self-assessment, and Section B, providing detailed short-answer responses.

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• Professional Exam Alignment: Content is specifically curated to meet the syllabi requirements of competitive engineering exams and professional certifications like the BEE Energy Auditor examination.

• Renewable Energy Focus: Detailed sections are dedicated to the latest developments in solar, wind, ocean, geothermal, and biomass energy, reflecting modern shifts toward sustainability.

• Industrial Utility Insights: Includes practical knowledge on industrial components such as furnaces, refractories, compressed air systems, and cooling towers, essential for field professionals.

• Energy Audit Emphasis: Provides specialized questions on energy conservation and auditing, helping readers understand the regulatory and practical frameworks of energy management.

• Practical Problem Solving: Features worked-out calculations for critical metrics like specific energy consumption and boiler efficiency to enhance quantitative skills.

• Environmental Impact Integration: Addresses the critical relationship between energy use and the environment, including topics on global warming, greenhouse gases, and emission trading.

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- Basics of Electric Energy Uses
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- Cooling Towers
- Compressed Air System
- Refrigeration System
- DG Set System
- Energy Efficient Lighting System
- Energy Efficient Technology In Electrical System
- Renewable Sources of Energy
- Solar Energy
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- Biomass Energy
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- Nuclear Fusion Energy
- Magneto Hydro dynamic (MHD) Generator
- Energy Storage & Conversion System
- Electric Power Generation
- Energy Conversation & Audit
- Energy & Environmental Impact
- Miscellaneous Question
- Section- B
- Short Answer Type Question

Author

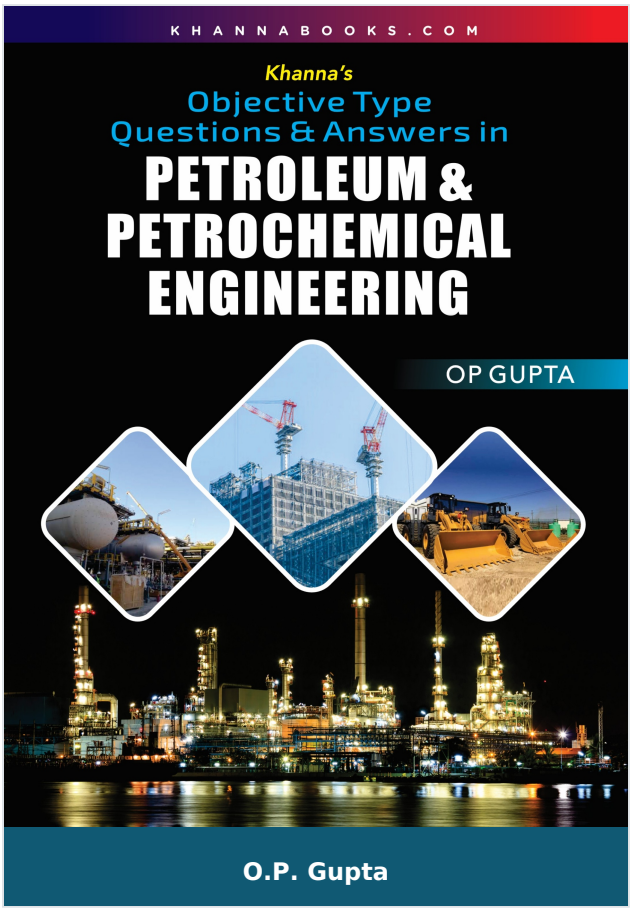
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Khanna's Objective Type Questions & Answers in Petroleum & Petrochemical Engineering

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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.

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• 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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- A. Objective Type Questions Answers in Petrochemical Engineering
- B. Short Answer Type Questions in Petrochemical Engineering
- C. Glossary Of Petrochemical Engineering

Author

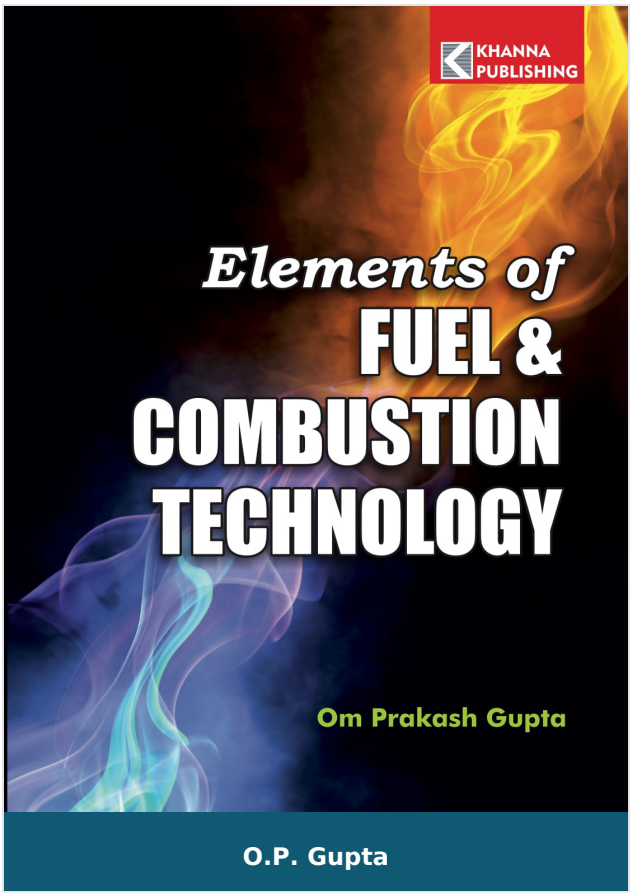
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Elements of Fuel & Combustion Technology

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Product Description

This book contains detailed description of solid, liquid, gaseous fuels, combustion and furnaces. Beside short questions and answers and multiple choice questions & answers and multiple choice questions; answers drawn from the examination papers of various engineering Colleges and professional bodies examinations are also included.

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), Institute of Chemicals etc.

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- Coal Tar Fuels (C.T.F)
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- Appendix-B: Short Questions and Answers on Fuel Technology
- Appendix-C: Multi-Choice Questions and Answers Fuel and Combustion Technology
- Appendix-D:Glossary of terms related to Fuels and Combustion Technology

Author

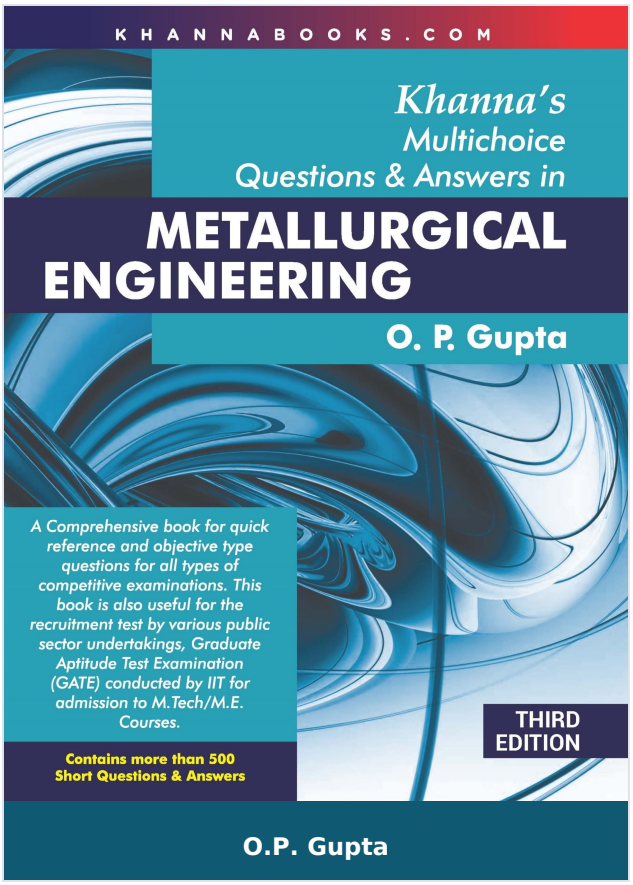
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Khanna's Multichoice Questions & Answers in Metallurgical Engineering

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Product Description

This book is meant for diploma & degree student of metallurgical engineering for their academic programs as well as for various competitive examination for securing jobs. This book has been structured in three section. First section contains multiple choice type questions of various subjects of metallurgical engineering. Second section contains chapter wise question of GATE (Graduate Aptitude Test in Engineering) from 1991 to 2016. Third section contains SHORT QUESTIONS & ANSWERS in METALLURGICAL ENGINEERING. Fourth section contains APPENDICES containing Glossary of terms related to Metallurgical Engineering and Q&A of GATE-2017. This book has been designed to serve as "Hand Book of Metallurgical Engineering" which will be useful for various competitive examinations for recruitment in various public sector & Private Sector companies as well as for GATE Examination. Question have been arranged subject wise and answers are given at the bottom of the page.

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- Physics of Metals
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- Miscellaneous Questions
- Section B – MCQ of GATE (Graduate Aptitude Test in Engineering)

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- General Metallurgy
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- Glossary

Author

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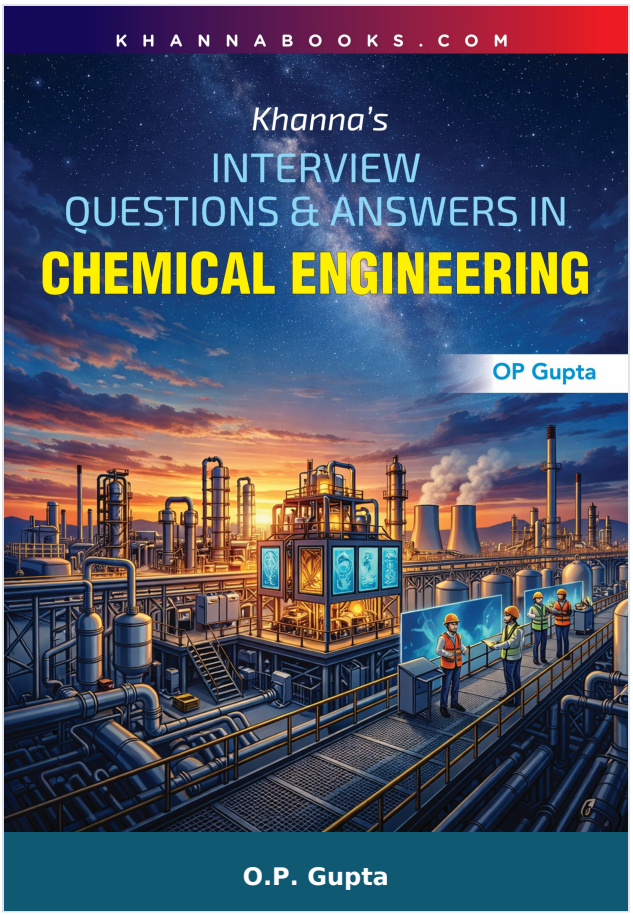
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Khanna's Interview Questions & Answers in Chemical Engineering

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Product Description

Interview Questions and Answers in Chemical Engineering by O.P. Gupta is a comprehensive, meticulously structured resource designed to bridge the gap between academic learning and professional recruitment. This first-edition volume provides a deep dive into the core pillars of the field, covering essential topics such as Fluid Mechanics, Heat Transfer, Mass Transfer, and Instrumentation. By presenting technical concepts in a clear question-and-answer format, the book helps readers master complex theories while simultaneously preparing them for the practical rigors of the industry.

The book is tailored for a wide-ranging audience, including diploma, degree (B. Tech.), and postgraduate (M. Tech.) students, as well as PhD candidates defending their theses. It also serves as an indispensable guide for professionals preparing for associate membership examinations like AMIE and AMIIChE, and for those appearing for recruitment interviews at premier public and private sector organizations like BARC, SAIL, and IOC. With its focus on both foundational principles and real-world applications—ranging from valve operations to advanced membrane separations—this book acts as a vital tool for anyone looking to excel in the chemical engineering profession.

Salient Features

• Core Technical Mastery: Comprehensive coverage of fundamental subjects like fluid mechanics, heat transfer, and thermodynamics.

• Interview-Ready Format: Concepts presented in a concise question-and-answer style, ideal for viva-voce and recruitment preparation.

• Industrial Equipment Insights: Functional details on hardware like orifice meters, venturi scrubbers, and various heat exchangers.

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• Advanced Separation Processes: In-depth explanations of liquid-liquid extraction, crystallization, and membrane-based techniques.

• Practical Applications: Strong focus on real-world scenarios, including wastewater treatment and industrial process control.

• Safety & Instrumentation: Critical guidance on PID controllers and specialized gauges for operational safety.

• Competitive Exam Alignment: Content tailored to the requirements of GATE, AMIE, and PSU recruitment exams.

• Diverse Domain Scope: Covers emerging and miscellaneous topics like carbon sequestration and environmental engineering.

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- Distillation Column
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Author

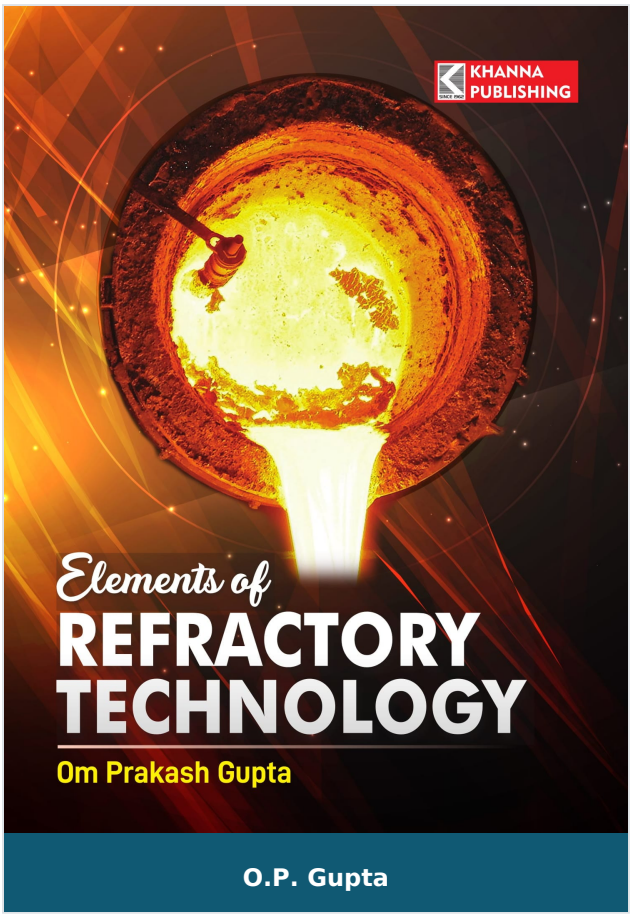
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Elements of Refractory Technology

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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-3: Refractories used in Various Furnaces/Industries
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- Appendix-B: Short Question & Answers on Refractory Technology
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- Appendix-D: Technical Data on Refractories
- Appendix- References/Bibliography/Further Reading

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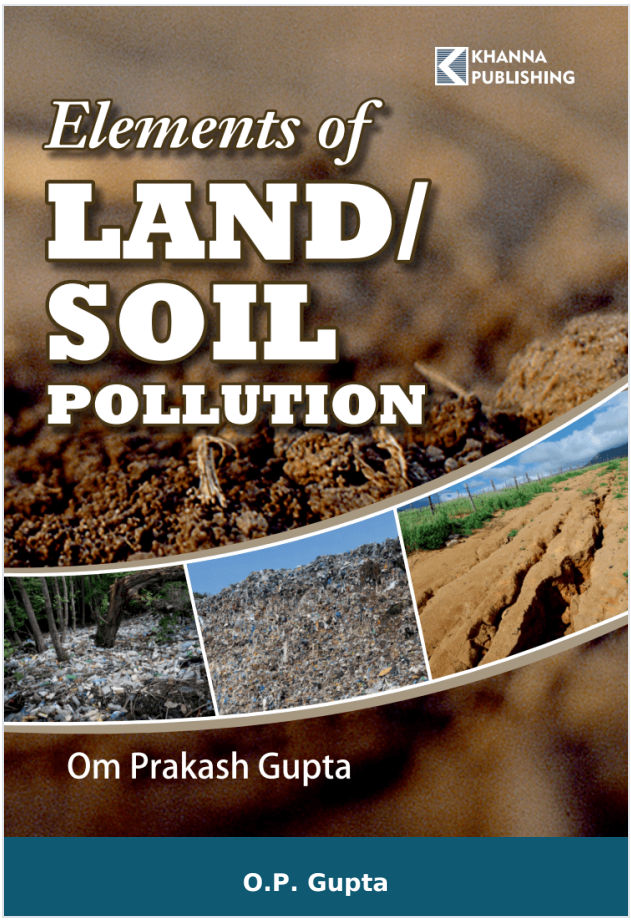
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Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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Elements of Land/Soil Pollution

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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-7. Multiple Choice Questions & Answers
- Chapter-8. Glossary of Terms Related to Soil Pollution

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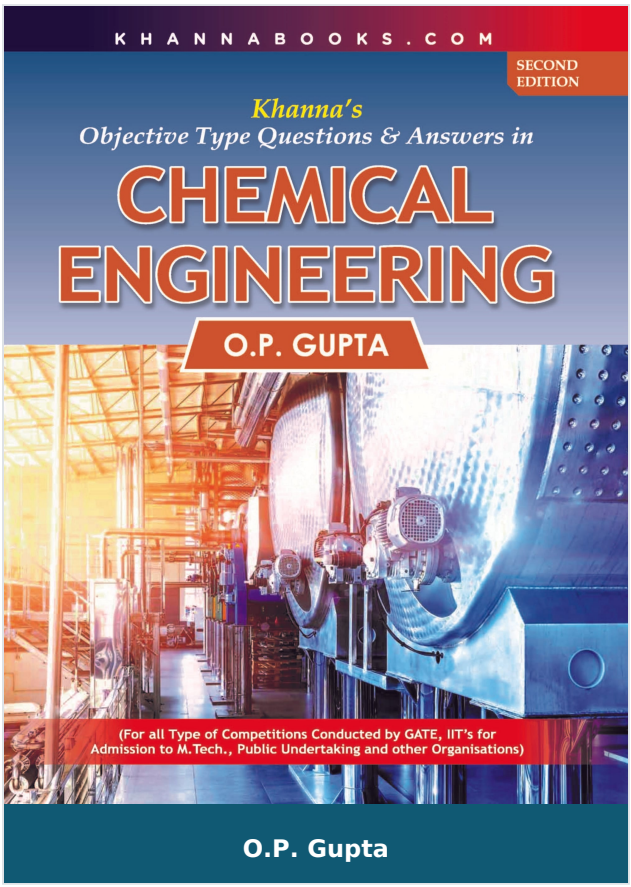
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Khanna's Objective Type Questions & Answers in Chemical Engineering

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Edition :	Second
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Product Description

This book is meant for diploma students of chemical engineering and petroleum engineering both for their academic program as well as for competitive examinations. This book contains 18 chapters covering title entire syllabus of diploma course in chemical engineering and petrochemical engineering. This book is its present form has been designed to serve as an encyclopedia of chemical engineering so as to be ready reckoner apart from being useful for all types or written tests and interviews faced by chemical engineering and petrochemical engineering are same as that of chemical engineering diploma students. So, this book will be-equally useful for diploma in petrochemical engineering students.

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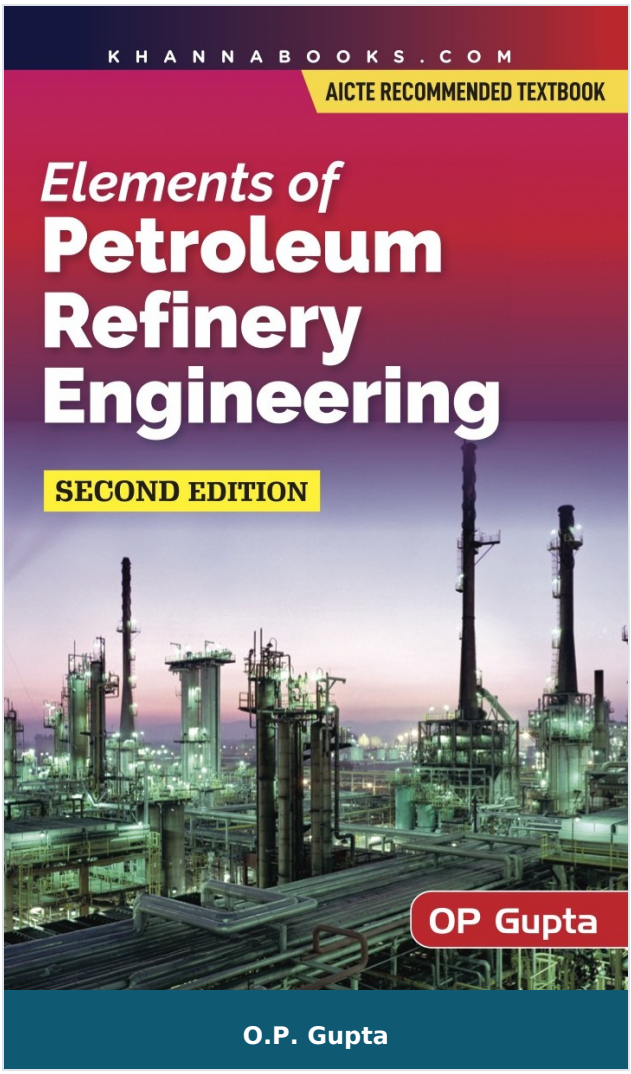
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Elements of Petroleum Refinery Engineering

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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.

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- General Appendix
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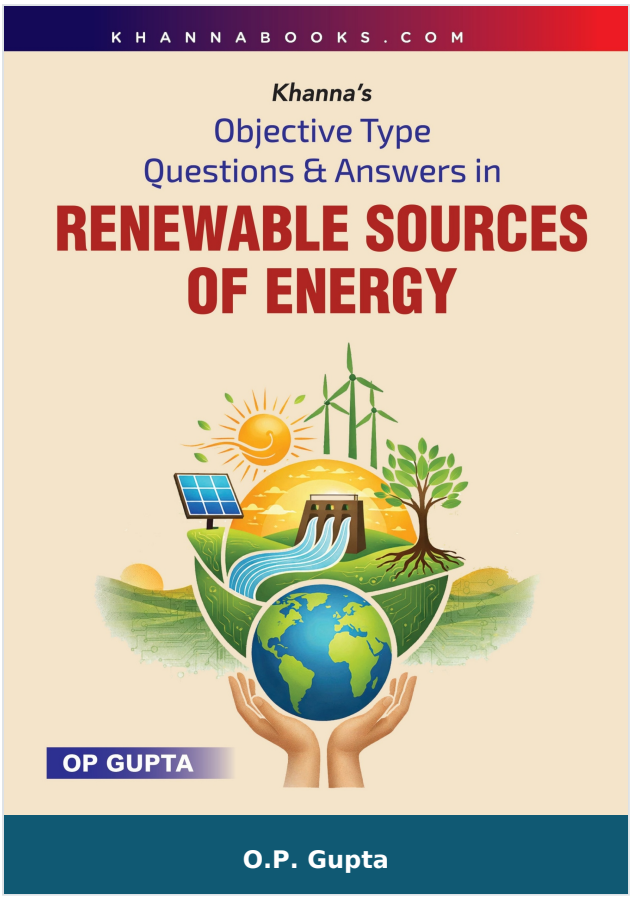
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Khanna's Objective Type Questions & Answers in Renewable Sources of Energy

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Product Description

Objective Type Questions and Answers in Renewable Sources of Energy is a comprehensive academic resource designed to provide a deep understanding of the rapidly evolving field of sustainable energy. Authored by Om Prakash Gupta, an experienced professional in human resource development and engineering, this book serves as a vital tool for mastering the theoretical and practical nuances of green technologies. It covers a broad spectrum of topics, including solar, wind, geothermal, biomass, and ocean energy, as well as emerging fields like nuclear fusion and Magneto Hydro Dynamic (MHD) power generation.

The book is specifically tailored to meet the curriculum needs of undergraduate, postgraduate, and diploma students across various engineering branches. It also serves as an essential preparatory guide for competitive associate membership examinations such as AMIE, AMIIM, and AMIICHE. By blending hundreds of objective-type questions with detailed short-answer explanations and an extensive glossary, the text ensures that readers can effectively bridge the gap between classroom learning and professional application. Whether you are a student, a faculty member, or a practicing consultant, this book offers a structured and engaging approach to mastering the clean energy paradigms of the future.

Salient Features

• Comprehensive Topic Coverage: This book provides an exhaustive exploration of non-conventional energy sources, including solar, wind, ocean, geothermal, biomass, hydropower, and nuclear fusion energy systems.

• Diverse Question Formats: Readers benefit from a dual-structured learning approach featuring over a hundred pages of objective-type questions followed by detailed short-answer explanations for conceptual clarity.

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• Exam-Oriented Design: The content is meticulously aligned with the syllabi of major professional bodies and engineering universities, making it an ideal companion for AMIE and competitive exams.

• Technical Glossary Included: A specialized section dedicated to a glossary of terms ensures that students and professionals can quickly master the complex terminology used in renewable energy industries.

• Practical Working Principles: The book includes descriptive answers and sketches that explain the mechanics of advanced systems like OTEC, parabolic dish collectors, and geothermal flash steam plants.

• Environmental Impact Analysis: Beyond technical mechanics, the text addresses critical environmental considerations, such as waste treatment and the ecological benefits of moving away from fossil fuels.

• Professional Reference Value: While primarily academic, the book serves as a reliable reference for practicing engineers and consultants looking to refresh their knowledge on sustainable energy applications.

• Emerging Technology Insights: The content dives into modern energy conversion devices, offering specific insights into fuel cells, thermionic converters, and Magneto Hydro Dynamic (MHD) generators.

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- Solar Energy
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- Glossary

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