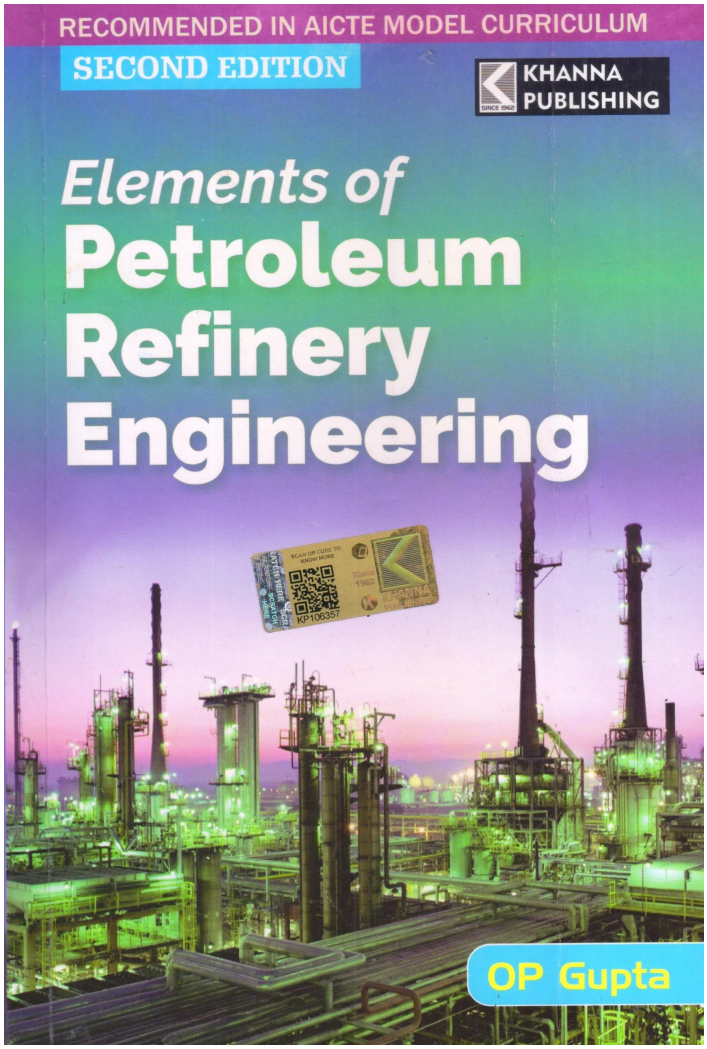

Elements of Petroleum Refinery Engineering

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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. 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.

Table of Contents

Preface

Definition

Abbreviations

Chapter 1: Origin, Composition, Classification, Pretreatment & Transportation of Petroleum Crude Oil. **Chapter 2:** Indian Crude Oil & Oil Refineries. **Chapter 3:** Processing of Crude Oil-Refinery Operation & Products. **Chapter 4:** Thermal and Catalytic Cracking. **Chapter 5:** Thermal and Catalytic Reforming. **Chapter 6:** Polymerization Alkylation and Isomerization Processes. **Chapter 7:** Purification of Petroleum Products. **Chapter 8:** Properties of Petroleum Products. **Chapter 9:** Requisites of Good Quality Petroleum Products. **Chapter 10:** Storage and Handling of Petroleum Product. **Chapter 11:** General Appendix. **Chapter 12:** Objective Type Q&A in Petroleum Refinery. **References/ Bibliography/Further Reading Subject Index**

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O.P. Gupta 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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