



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 AMIChE, 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.
- **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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Author

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.

