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Sinopsis

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Chemical Process Technology is a comprehensive introduction, examining both the fundamental concepts and applied nature of this subject. Modern process development relies on a knowledge of many different disciplines and an application and integration of this knowledge. The book provides an essential bridge between the chemical sciences and the chemical industry. It enables the reader to integrate fundamental knowledge of the basic disciplines, to understand the most important chemical processes, and to apply this knowledge and understanding to industrial processes.

The text examines both large-scale and small-scale chemical and biotechnology industries and brings to life the concepts that form the basis of the process industry. Starting with a general look at the industry, subsequent chapters examine different processes in greater detail. Emphasis is placed on chemical reactions and the reactor, both at the heart of each process, but coverage also includes feed pre-treatment and product separation.

Key Features:

A comprehensive and balanced introduction, providing an essential link between chemistry and the chemical industry

Includes problems with their solutions to encourage a fuller understanding of the project

Many examples and case studies taken from a variety of modern industries

Richly illustrated chapters, with many clearly developed flow diagrams and numerous figures