



Chemical Engineering: Trends and Developments

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Unlike extensive major reference works or handbooks, *Chemical Engineering: Trends and Developments* provides readers with a ready-reference to latest techniques in selected areas of chemical engineering where research is and will be focused in the future. These areas are: bioseparations; particle science and design; nanotechnology; and reaction engineering. The aim of the book is to provide academic and R&D researchers with an overview of the main areas of technical development and how these techniques can be applied. Each chapter focuses on a technique, plus a selection of applications or examples of where the technique could be applied.

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Editorial Review

Review

"...a good resource for researchers, scientists, and engineers...would also serve well as a text for graduate students..." (*Materials and Manufacturing Processes*, September/October 2006)

"...a book like this is...refreshing because it allows an interested reader to take a casual stroll on the beach and collect shells--hopefully picking up a few that spark innovation." (*The Canadian Journal of Chemical Engineering*, October 2006)

From the Back Cover

Chemical engineering is being revolutionised by the emergence of innovative applications, developing into a process technology that affects many different industries. Significant advances in techniques have developed in four key areas: bioseparations, nanotechnology, particle science and design, and reaction engineering. This book provides an overview of the main areas of technical development and their applications.

Chemical Engineering: Trends and Developments begins with the scope and basic concepts of chemical engineering by explaining the advances in chemical engineering and the rationale for the selected topics. This book continues with an overview of the whole discipline with several chapters related to the separations process. Subsequent chapters focus on applications covered in the field, such as reaction engineering, particle manufacture and encapsulation and coating. The final chapters are dedicated to process integration with techniques applied to actual industry practice, demonstrating the advances and opportunities in this field.

Key features:

- Focuses on the key technical advances in the areas of bioseparations, nanotechnology, particle science and design, and reaction engineering.
- Each chapter focuses on a specific topic, providing detailed prospective on technical innovations and industrial applications.
- A broad coverage enables readers from different disciplines to adopt new techniques for their working practices.

This book is essential reading for postgraduates and academic researcher working in Chemical or Process Engineering, especially in the areas of fluid mechanics, particle science and biotechnology, catalysis and process systems engineering. It will be of interest to professional chemical engineers working in companies from the pharmaceutical, cosmetic, and electronic industries and for any industries involving chemical processes.

Users Review

From reader reviews:

Karen Taylor:

This Chemical Engineering: Trends and Developments book is just not ordinary book, you have after that it

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