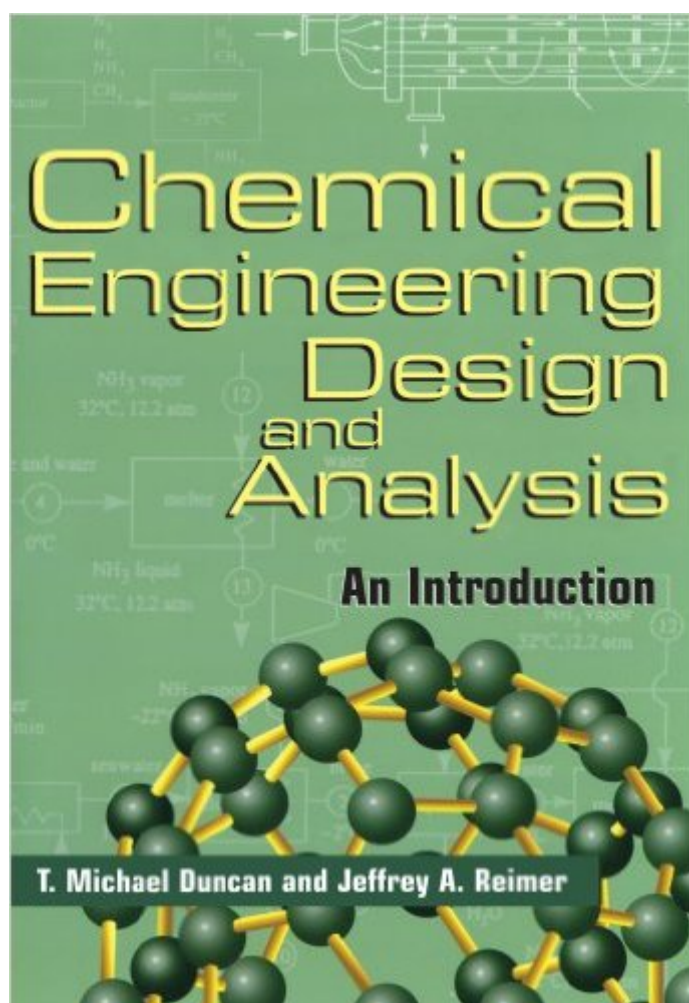


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Chemical Engineering Design And Analysis: An Introduction (Cambridge Series In Chemical Engineering)



Synopsis

Students taking their first chemical engineering course plunge into the "nuts and bolts" of mass and energy balances, often missing the broad view of what chemical engineers do. This innovative text offers a well-paced introduction to chemical engineering. The text helps students practice engineering. They are introduced to the fundamental steps in design and three methods of analysis: mathematical modeling, graphical methods, and dimensional analysis. In addition, students apply engineering skills, such as how to simplify calculations through assumptions and approximations; how to verify calculations, significant figures, spreadsheets, graphing (standard, semi-log and log-log); and how to use data maps. It also describes the chemical engineering profession. Students learn engineering skills by designing and analyzing chemical processes and process units in order to assess product quality, economics, safety, and environmental impact. This text will help students develop engineering skills early in their studies and encourage an informed decision of whether to study chemical engineering. Solutions manual available.

Book Information

Series: Cambridge Series in Chemical Engineering

Paperback: 396 pages

Publisher: Cambridge University Press; 1 edition (August 28, 1998)

Language: English

ISBN-10: 0521639565

ISBN-13: 978-0521639569

Product Dimensions: 7 x 0.8 x 10 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

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This book presents the concepts of chemical engineering at a basic level for a student at the introductory level. Topics are discussed logically and concisely with an appropriate level of detail to give the student a solid foundation for further study. This book assumes only a basic high school level math and chemistry education. As a first year college student, I found the book extremely helpful. It explained the material in a clear and straightforward manner. I recommend this book to

any student interested in beginning a career in chemical engineering.

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