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Chemical Engineering Design and Analysis: An Introduction

By T. Michael Duncan

Cambridge University Press. Paperback. Book Condition: New. Paperback. 396 pages. Dimensions: 9.8in. x 7.0in. x 0.7in. 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. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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