Applied Mathematics and Modeling for Chemical Engineers

Richard G. Rice and Duong D. Do



Applied Mathematics And Modeling For Chemical Engineers Second Edition

Jan Harmsen,André B. de Haan,Pieter L. J. Swinkels

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Solutions Manual to Accompany Applied Mathematics and Modeling for Chemical Engineers Richard G. Rice, Duong D. Do, 2013-08-19 This book is a Solutions Manual to Accompany Applied Mathematics and Modeling for Chemical Engineers There are many examples provided as homework in the original text and the solution manual provides detailed solutions of many of these problems that are in the parent book Applied Mathematics and Modeling for Chemical Applied Mathematics and Modeling for Chemical Engineers Richard G. Rice, Duong D. Do, James E. 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Rice, Duong D. Do, 2012-09-25 reference Enables chemical engineers to use mathematics to solve common on the job problems With its clear explanations examples and problem sets Applied Mathematics and Modeling for Chemical Engineers has enabled thousands of chemical engineers to apply mathematical principles to successfully solve practical problems. The book introduces traditional techniques to solve ordinary differential equations as well as analytical methods to deal with important classes of finite difference equations It then explores techniques for solving partial differential equations from classical methods to finite transforms culminating with numerical methods including orthogonal collocation This Second Edition demonstrates how classical mathematics solves a broad range of new applications that have arisen since the publication of the acclaimed first edition Readers will find new materials and problems dealing with such topics as Brain implant drug delivery Carbon dioxide storage Chemical reactions in nanotubes Dissolution of pills and pharmaceutical capsules Honeycomb reactors used in catalytic converters New models of physical phenomena such as bubble coalescence Like the first edition this Second Edition provides plenty of worked examples that explain each step on the way to finding a problem's solution Homework problems at the end of each chapter are designed to encourage readers to more deeply examine the underlying logic of the mathematical techniques used to arrive at the answers Readers can refer to the references also at the end of each chapter to explore individual topics in greater depth Finally the text s appendices provide additional information on numerical methods for solving algebraic equations as well as a detailed explanation of numerical integration algorithms Applied Mathematics and Modeling for Chemical Engineers is recommended for all students in chemical engineering as well as professional chemical engineers who want to improve their ability to use mathematics to solve common on the job problems **Applied Mathematical Methods** for Chemical Engineers, Second Edition Norman W. Loney, 2006-09-22 Focusing on the application of mathematics to chemical engineering Applied Mathematical Methods for Chemical Engineers Second Edition addresses the setup and verification of mathematical models using experimental or other independently derived data An expanded and updated version of its well respected predecessor this book uses worked examples to illustrate several mathematical methods that are essential in successfully solving process engineering problems. 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This understanding most naturally arises from deriving analytical solutions of a modified version of the problem being considered Analytical models also allow for easier process optimizations Emphasizing these analytical methods Applied Mathematical Methods for Chemical Engineers introduces several techniques essential to solving real problems The author s presentation shows students how to translate a problem from prose to mathematical symbolism and allows them to inductively build on previous experience Designed for senior undergraduates and first year graduates the text provides detailed examples that allow students to experience how to actually use the methods presented It contains an entire chapter of fully worked examples involving traditional mass heat and momentum applications along with cutting edge technologies such as membrane separation and chemical vapor deposition Another chapter acquaints readers with selected numerical methods and available software packages Favoring clear practical exposition over strict mathematical rigor Applied Mathematical Methods for Chemical Engineers removes the mathematics phobia that often exists among chemical engineering students It allows them to learn by example the techniques they will need to solve problems in practice

Linear Mathematical Models In Chemical Engineering Martin Aksel Hjortso, Peter R Wolenski, 2010-01-15 Latest Edition Linear Mathematical Models in Chemical Engineering 2nd Edition Understanding the mathematical modeling of chemical processes is fundamental to the successful career of a researcher in chemical engineering This book reviews introduces and develops the mathematics that is most frequently encountered in sophisticated chemical engineering models The result of a collaboration between a chemical engineer and a mathematician both of whom have taught classes on modeling and applied mathematics the book provides a rigorous and in depth coverage of chemical engineering model formulation and analysis as well as a text which can serve as an excellent introduction to linear mathematics for engineering students There is a clear focus in the choice of material worked examples and exercises that make it unusually accessible to the target audience The book places a heavy emphasis on applications to motivate the theory but simultaneously maintains a high standard of rigor to add mathematical depth and understanding **Applied Mathematics and Modeling for** Chemical Engineers, Multi-Volume Set Richard G. Rice, Duong D. Do, James E. Maneval, 2023-05-09 Understand the fundamentals of applied mathematics with this up to date introduction Applied mathematics is the use of mathematical concepts and methods in various applied or practical areas including engineering computer science and more As engineering science expands the ability to work from mathematical principles to solve and understand equations has become an ever more critical component of engineering fields New engineering processes and materials place ever increasing mathematical demands on new generations of engineers who are looking more and more to applied mathematics for an expanded toolkit Applied Mathematics and Modeling for Chemical Engineers provides this toolkit in a comprehensive and easy to understand introduction Combining classical analysis of modern mathematics with more modern applications it offers everything required to assess and solve mathematical problems in chemical engineering Now updated to reflect contemporary best

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