

Second Edition

Applied Mathematics and Modeling for Chemical Engineers

Richard G. Rice and Duong D. Do



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Applied Mathematics And Modeling For Chemical Engineers Second Edition

Martin Aksel Hjortso, Peter R Wolenski



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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 The book first provides an introduction to differential equations that are common to chemical engineering followed by examples of first order and linear second order ordinary differential equations ODEs Later chapters examine Sturm Liouville problems Fourier series integrals linear partial differential equations PDEs and regular perturbation The author also focuses on examples of PDE applications as they relate to the various conservation laws practiced in chemical engineering The book concludes with discussions of dimensional analysis and the scaling of boundary value problems and presents selected numerical methods and available software packages New to the Second Edition Two popular approaches to model development shell balance and conservation law balance One dimensional rod model and a planar model of heat conduction in one direction Systems of first order ODEs Numerical method of lines using MATLAB and Mathematica where appropriate This invaluable resource provides a crucial introduction to mathematical methods for engineering and helps in choosing a suitable software package for computer based algebraic applications

Numerical Methods and Modeling for Chemical Engineers Mark E. Davis, 2013-01-01 Geared toward advanced undergraduates or graduate students of chemical engineering studying applied mathematics this text introduces the quantitative treatment of differential equations arising from modeling physical phenomena in chemical engineering Coverage includes topics such as ODE IVPs placing emphasis on numerical methods and modeling implemented in commercial mathematical software available in 1985

Applied Mathematical Methods for Chemical Engineers Norman W. Loney, 2000-09-28 Although most realistic process engineering models require numerical solution it is important for chemical engineering students to have an understanding of the gross tendencies of the particular model they are using

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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

practices and novel applications this guide promises to situate readers in a 21st century chemical engineering field in which direct knowledge of mathematics is essential Readers of the third edition of Applied Mathematics and Modeling for Chemical Engineers will also find Detailed treatment of ordinary differential equations ODEs and partial differential equations PDEs and their solutions New material concerning approximate solution methods like perturbation techniques and elementary numerical solutions Two new chapters dealing with Linear Algebra and Applied Statistics Applied Mathematics and Modeling for Chemical Engineers is ideal for graduate and advanced undergraduate students in chemical engineering and related fields as well as instructors and researchers seeking a handy reference

Product and Process Design Jan Harmsen, André B. de Haan, Pieter L. J. Swinkels, 2018-05-22 Product and Process Design Driving Innovation is a comprehensive textbook for students and industrial professionals It treats the combined design of innovative products and their innovative manufacturing processes providing specific methods for BSc MSc PDEng and PhD courses Students industrial innovators and managers are guided through all design steps in all innovation stages discovery concept feasibility development detailed engineering and implementation to successfully obtain novel products and their novel processes The authors decades of innovation experience in industry as well as in teaching BSc MSc and post academic product and process design courses thereby including the latest design publications culminate in this book

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