

Third Edition

Applied Mathematics and Modeling for Chemical Engineers

Richard G. Rice | Duong D. Do | James E. Maneval



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Applied Mathematics and Modeling for Chemical Engineers Richard G. Rice, Duong D. Do, James E. Maneval, 2023-03-07 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, it 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.

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. 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 *Applied Mathematics in Chemical Engineering* ,1975 *Applied Mathematics in Chemical Engineering* Harold S. Mickley,Thomas Kilgore Sherwood,Charles Eli Reed,1967 *Applied Mathematics and Modeling for Chemical Engineers* Richard G. Rice,2012 This book combines the classical analysis and modern applications of applied mathematics for chemical engineers The book introduces traditional techniques for solving ordinary differential equations ODEs adding new material on approximate solution methods such as perturbation techniques and elementary numerical solutions It also includes analytical methods to deal with important classes of finite difference equations The last half discusses numerical solution techniques and partial differential equations PDEs The reader will then be equipped to apply mathematics in the formulation of problems in chemical engineering Like the first edition there are many examples provided as homework and worked examples **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 **Applied Mathematics in Chemical Engineering** American Institute of Chemical Engineers,1961 **Applied Mathematics in Chemical Engineering** ,1962 *Applied Mathematics in Chemical Engineering* H. S. Mickley,Th. K. Sherwood,Ch. E. Reed,1957 **Applied Mathematics in Chemical Engineering** Martin C. Hawley,Charles P. Wells,1984 Numerical

Methods and Modeling for Chemical Engineers Mark E. Davis, 2013-11-19 This text introduces the quantitative treatment of differential equations arising from modeling physical phenomena in chemical engineering Coverage includes recent topics such as ODE IVPs emphasizing numerical methods and modeling of 1984 era commercial mathematical software **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 Applied Mathematics in Chemical Engineering [by] Bacil F. Dickert [and Others]. American Institute of Chemical Engineers, **Methods of Applied Mathematics for Engineers and Scientists** Tomas B. Co, 2013-06-28 Based on course notes from over twenty years of teaching engineering and physical sciences at Michigan Technological University Tomas Co's engineering mathematics textbook is rich with examples applications and exercises Professor Co uses analytical approaches to solve smaller problems to provide mathematical insight and understanding and numerical methods for large and complex problems The book emphasises applying matrices with strong attention to matrix structure and computational issues such as sparsity and efficiency Chapters on vector calculus and integral theorems are used to build coordinate free physical models with special emphasis on orthogonal coordinates Chapters on ODEs and PDEs cover both analytical and numerical approaches Topics on analytical solutions include similarity transform methods direct formulas for series solutions bifurcation analysis Lagrange Charpit formulas shocks rarefaction and others Topics on numerical methods include stability analysis DAEs high order finite difference formulas Delaunay meshes and others MATLAB implementations of the methods

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