

Third Edition

Applied Mathematics and Modeling for Chemical Engineers

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



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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, 2016-03-09 This book uses worked examples to showcase several mathematical methods that are essential to solving real world process engineering problems The third edition includes additional examples related to process control Bessel Functions and contemporary areas such as drug delivery The author inserts more depth on specific applications such as nonhomogeneous cases of separation of variables adds a section on special types of matrices such as upper and lower triangular matrices incorporates examples related to biomedical engineering applications and expands the problem sets of numerous chapters **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 H. S. Mickley, Th. K. Sherwood, Ch. E. Reed, 1957

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

Computational Methods in Chemical Engineering with Maple Ralph E. White, Venkat R. Subramanian, 2010-02-06 This book presents Maple solutions to a wide range of problems relevant to chemical engineers and others Many of these solutions use Maple s symbolic capability to help bridge the gap between analytical and numerical solutions The readers are strongly encouraged to refer to the references included in the book for a better understanding of the physics involved and for the mathematical analysis This book was written for a senior undergraduate or a first year graduate student course in chemical engineering Most of the examples in this book were done in Maple 10 However the codes should run in the most recent version of Maple We strongly encourage the readers to use the classic worksheet mws option in Maple as we believe it is more user friendly and robust In chapter one you will find an introduction to Maple which includes simple basics as a convenience for the reader such as plotting solving linear and nonlinear equations Laplace transformations matrix operations do loop and while loop Chapter two presents linear ordinary differential equations in section 1 to include homogeneous and nonhomogeneous ODEs solving systems of ODEs using the matrix exponential and Laplace transform method In section two of chapter two nonlinear ordinary differential equations are presented and include simultaneous series reactions solving nonlinear ODEs with Maple s dsolve command stop conditions differential algebraic equations and steady state solutions Chapter three addresses boundary value problems

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 *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 for Chemical and Metallurgical Engineers*; Keith Hal Coats,1960 **Applied Mathematics in Chemical Engineering** American Institute of Chemical Engineers,1962 *Classical Thermodynamics of Nonelectrolyte Solutions* Hendrick C. Van Ness,Michael M. Abbott,1982 *Solution Manual to Accompany Numerical Methods and Modeling for Chemical Engineers* Mark E. Davis,1984-02-01

Introduction to Chemical Engineering Kenneth A. Solen,John N. Harb,2011-08-24 This concise book is a broad and highly motivational introduction for first year engineering students to the exciting of field of chemical engineering The material in the text is meant to precede the traditional second year topics It provides students with 1 materials to assist them in deciding whether to major in chemical engineering and 2 help for future chemical engineering majors to recognize in later courses the connections between advanced topics and relationships to the whole discipline This text or portions of it may be useful for the chemical engineering portion of a broader freshman level introduction to engineering course that examines multiple engineering fields *Transactions of the American Institute of Chemical Engineers* ,1926 **Applied Mathematics for Science and Engineering** Larry A. Glasgow,2014-09-09 Prepare students for success in using applied mathematics for engineering practice and post graduate studies Moves from one mathematical method to the next sustaining reader interest and easing the application of the techniques Uses different examples from chemical civil mechanical and various other engineering fields Based on a decade s worth of the authors lecture notes detailing the topic of applied mathematics for scientists and engineers Concisely writing with numerous examples provided including historical perspectives as well as a solutions manual for academic adopters *Open-Ended Problems* James Patrick Abulencia,Louis Theodore,2015-03-27 This is a unique book with nearly 1000 problems and 50 case studies on open ended problems in every key topic in chemical engineering that helps to better prepare chemical engineers for the future The term open ended problem basically describes an approach to the solution of a problem and or situation for which there is not a unique solution The Introduction to the general subject of open ended problems is followed by 22 chapters each of which addresses a traditional chemical engineering or chemical engineering related topic Each of these chapters contain a brief overview of the subject matter of concern e g thermodynamics which is followed by sample open ended problems that have been solved by the authors employing one of the many possible approaches to the solutions This is then followed by approximately 40 45 open ended problems with no solutions although many of the authors solutions are available for those who adopt the book for

classroom or training purposes A reference section is included with the chapter s contents Term projects comprised of 12 additional chapter topics complement the presentation This book provides academic industrial and research personnel with the material that covers the principles and applications of open ended chemical engineering problems in a thorough and clear manner Upon completion of the text the reader should have acquired not only a working knowledge of the principles of chemical engineering but also and more importantly experience in solving open ended problems What many educators have learned is that the applications and implications of open ended problems are not only changing professions but also are moving so fast that many have not yet grasped their tremendous impact The book drives home that the open ended approach will revolutionize the way chemical engineers will need to operate in the future

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