

AN INTRODUCTION
TO NUMERICAL METHODS
FOR CHEMICAL ENGINEERS

SECOND EDITION

James B. Riggs

An Introduction To Numerical Methods For Chemical Engineers 2nd Ed

Marcel Maeder, Yorck-Michael Neuhold



An Introduction To Numerical Methods For Chemical Engineers 2nd Ed:

INTRODUCTION TO NUMERICAL METHODS IN CHEMICAL ENGINEERING, SECOND EDITION AHUJA, PRADEEP, 2019-08-01 This book is an exhaustive presentation of the applications of numerical methods in chemical engineering. Intended primarily as a textbook for B E B Tech and M Tech students of chemical engineering, the book will also be useful for research and development process professionals in the fields of chemical, biochemical, mechanical, and biomedical engineering. The book, now in its second edition, comprises three parts. Part I on General Chemical Engineering is the same as given in the first edition of the book. It explains solving linear and non-linear algebraic equations, chemical engineering thermodynamics problems, initial value problems, boundary value problems, and topics related to chemical reaction, dispersion, and diffusion, as well as steady and transient heat conduction. Whereas Part II and Part III, comprising two chapters and six chapters respectively, are newly introduced in the present edition. Besides three appendices covering computer programs, have been included. For practice, the book provides students with numerous worked-out examples and chapter-end exercises, including their answers. **NEW TO THE SECOND EDITION** Part II on Fixed Bed Catalytic Reactor consists of solving multiple gas-phase reactions in a PFR, diffusion and multiple reactions in a catalytic pellet, and fixed bed catalytic reactor with multiple reactions. Part III on Multicomponent Distillation consists of solving vapour-liquid-liquid isothermal flash using NRTL model, adiabatic flash using Wilson model, bubble point method, theta method, and Naphtali Sandholm method for distillation using modified Raoult's law with Wilson activity coefficient model. *An Introduction to Numerical Methods for Chemical Engineers* James B. Riggs, 1988. In this second edition, the author has added new problems and updated the accompanying FORTRAN computer programs. New library programs are included that perform singular value decomposition of a matrix and apply a conjugate gradient optimizer. Discussions have been added on the effect of stiffness on initial value problems and order-variable step size integration. An IBM-compatible disk is included, and an Apple and Macintosh disk, as well as a solutions manual, are available on request. Annotation copyright by Book News Inc, Portland, OR. **An Introduction to Numerical Methods for Chemical Engineers (2nd Ed.)** James B. Riggs, 1994-01-15. *A Numerical Primer for the Chemical Engineer, Second Edition* Edwin Zondervan, 2019-08-16. Designed as an introduction to numerical methods for students, this book combines mathematical correctness with numerical performance and concentrates on numerical methods and problem solving. It applies actual numerical solution strategies to formulated process models to help identify and solve chemical engineering problems. Second edition comes with an additional chapter on numerical integration and a section on boundary value problems in the relevant chapter. Additional material on general modelling, principles, mass energy balances, and a separate section on DAEs is also included. Case study section has been extended with additional examples. Numerical Methods for Chemical Engineering Kenneth J. Beers, 2007. Applications of numerical mathematics and scientific computing to chemical engineering. **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 for Engineers* Santosh K Gupta, 1995 This Book Is Intended To Be A Text For Either A First Or A Second Course In Numerical Methods For Students In All Engineering Disciplines Difficult Concepts Which Usually Pose Problems To Students Are Explained In Detail And Illustrated With Solved Examples Enough Elementary Material That Could Be Covered In The First Level Course Is Included For Example Methods For Solving Linear And Nonlinear Algebraic Equations Interpolation Differentiation Integration And Simple Techniques For Integrating Odes And Pdes Ordinary And Partial Differential Equations Advanced Techniques And Concepts That Could Form Part Of A Second Level Course Include gears Method For Solving Ode Ivps Initial Value Problems Stiffness Of Ode Ivps Multiplicity Of Solutions Convergence Characteristics The Orthogonal Collocation Method For Solving Ode Bvps Boundary Value Problems And Finite Element Techniques An Extensive Set Of Graded Problems Often With Hints Has Been Included Some Involve Simple Applications Of The Concepts And Can Be Solved Using A Calculator While Several Are From Real Life Situations And Require Writing Computer Programs Or Use Of Library Subroutines Practice On These Is Expected To Build Up The Reader S Confidence In Developing Large Computer Codes **Mathematical Modelling and Simulation in Chemical Engineering** M. Chidambaram, 2018-03-09 An easy to understand guide covering key principles of mathematical modelling and simulation in chemical engineering 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

Numerical Methods for Scientists and Engineers Zekeriya Altaç, 2024-10-15 Numerical Methods for Scientists and Engineers With Pseudocodes is designed as a primary textbook for a one semester course on Numerical Methods for sophomore or junior level students It covers the fundamental numerical methods required for scientists and engineers as well as some advanced topics which are left to the discretion of instructors The objective of the text is to provide readers with a strong theoretical background on numerical methods encountered in science and engineering and to explain how to apply these methods to practical real world problems Readers will also learn how to convert numerical algorithms into running computer codes Features Numerous pedagogic features including exercises pros and cons boxes for each method discussed and rigorous highlighting of key topics and ideas Suitable as a primary text for undergraduate courses in numerical methods but also as a reference to working engineers A Pseudocode approach that makes the book accessible to those with different or no coding backgrounds which does not tie instructors to one particular language over another A dedicated website featuring additional code examples quizzes exercises discussions and more <https://github.com/zaltac/NumMethodsWPpseudoCodes> A complete Solution Manual and PowerPoint Presentations are available free of charge to instructors at www.routledge.com/9781032754741

A Numerical Primer for the Chemical Engineer Edwin Zondervan, 2014-08-12 Solve Developed Models in a Numerical Fashion Designed as an introduction to numerical methods for students A Numerical Primer for the Chemical Engineer explores the role of models in chemical engineering Combining mathematical correctness model verification with numerical performance model validation this text concentrates on numerical methods

Numerical Methods and Optimization Jean-Pierre Corriou, 2022-01-04 This text covering a very large span of numerical methods and optimization is primarily aimed at advanced undergraduate and graduate students A background in calculus and linear algebra are the only mathematical requirements The abundance of advanced methods and practical applications will be attractive to scientists and researchers working in different branches of engineering The reader is progressively introduced to general numerical methods and optimization algorithms in each chapter Examples accompany the various methods and guide the students to a better understanding of the applications The user is often provided with the opportunity to verify their results with complex programming code Each chapter ends with graduated exercises which furnish the student with new cases to study as well as ideas for exam homework problems for the instructor A set of programs made in Matlab™ is available on the author's personal website and presents both numerical and optimization methods

Numerical Methods in Engineering Amiya K. Jana, 2024-10-24 This textbook strikes a balance between theory and practice to introduce engineering students to numerical methods and their process applications

CHEMICAL PROCESS MODELLING AND COMPUTER SIMULATION AMIYA K. JANA, 2011-11-05 This

comprehensive and thoroughly revised text now in its second edition continues to present the fundamental concepts of how mathematical models of chemical processes are constructed and demonstrate their applications to the simulation of two of the very important chemical engineering systems the chemical reactors and distillation systems The book provides an integrated treatment of process description mathematical modelling and dynamic simulation of realistic problems using the robust process model approach and its simulation with efficient numerical techniques Theoretical background materials on activity coefficient models equation of state models reaction kinetics and numerical solution techniques needed for the development of mathematical models are also addressed in the book The topics of discussion related to tanks heat exchangers chemical reactors both continuous and batch biochemical reactors continuous and fed batch distillation columns continuous and batch equilibrium flash vaporizer and refinery debutanizer column contain several worked out examples and case studies to teach students how chemical processes can be measured and monitored using computer programming The new edition includes two more chapters Reactive Distillation Column and Vaporizing Exchangers which will further strengthen the text This book is designed for senior level undergraduate and first year postgraduate level courses in Chemical Process Modelling and Simulation The book will also be useful for students of petrochemical engineering biotechnology and biochemical engineering It can serve as a guide for research scientists and practising engineers as well

Basic Principles and Calculations in Chemical Engineering David Mautner Himmelblau, James B. Riggs, 2012 Best selling introductory chemical engineering book now updated with far more coverage of biotech nanotech and green engineering Thoroughly covers material balances gases liquids and energy balances Contains new biotech and bioengineering problems throughout Chemical Engineering Dynamics John Ingham, Irving J. Dunn, Elmar Heinzle, Jiri E. Prenosil, Jonathan B. Snape, 2008-02-08 In this book the modelling of dynamic chemical engineering processes is presented in a highly understandable way using the unique combination of simplified fundamental theory and direct hands on computer simulation The mathematics is kept to a minimum and yet the nearly 100 examples supplied on www.wiley.vch.de illustrate almost every aspect of chemical engineering science Each example is described in detail including the model equations They are written in the modern user friendly simulation language Berkeley Madonna which can be run on both Windows PC and Power Macintosh computers Madonna solves models comprising many ordinary differential equations using very simple programming including arrays It is so powerful that the model parameters may be defined as sliders which allow the effect of their change on the model behavior to be seen almost immediately Data may be included for curve fitting and sensitivity or multiple runs may be performed The results can be seen simultaneously on multiple graph windows or by using overlays The resultant learning effect of this is tremendous The examples can be varied to fit any real situation and the suggested exercises provide practical guidance The extensive experience of the authors both in university teaching and international courses is reflected in this well balanced presentation which is suitable for the teacher the student the chemist or the

engineer This book provides a greater understanding of the formulation and use of mass and energy balances for chemical engineering in a most stimulating manner This book is a third edition which also includes biological environmental and food process examples

Practical Data Analysis in Chemistry Marcel Maeder, Yorck-Michael Neuhold, 2007-08-10 The majority of modern instruments are computerised and provide incredible amounts of data Methods that take advantage of the flood of data are now available importantly they do not emulate graph paper analyses on the computer Modern computational methods are able to give us insights into data but analysis or data fitting in chemistry requires the quantitative understanding of chemical processes The results of this analysis allows the modelling and prediction of processes under new conditions therefore saving on extensive experimentation Practical Data Analysis in Chemistry exemplifies every aspect of theory applicable to data analysis using a short program in a Matlab or Excel spreadsheet enabling the reader to study the programs play with them and observe what happens Suitable data are generated for each example in short routines this ensuring a clear understanding of the data structure Chapter 2 includes a brief introduction to matrix algebra and its implementation in Matlab and Excel while Chapter 3 covers the theory required for the modelling of chemical processes This is followed by an introduction to linear and non linear least squares fitting each demonstrated with typical applications Finally Chapter 5 comprises a collection of several methods for model free data analyses Includes a solid introduction to the simulation of equilibrium processes and the simulation of complex kinetic processes Provides examples of routines that are easily adapted to the processes investigated by the reader Model based analysis linear and non linear regression and model free analysis are covered

Albright's Chemical Engineering Handbook Lyle Albright, 2008-11-20 Taking greater advantage of powerful computing capabilities over the last several years the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering Albright s Chemical Engineering Handbook represents a reliable source of updated methods applications and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations Well rounded concise and practical by design this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties Each chapter provides a clear review of basic information case examples and references to additional more in depth information They explain essential principles calculations and issues relating to topics including reaction engineering process control and design waste disposal and electrochemical and biochemical engineering The final chapters cover aspects of patents and intellectual property practical communication and ethical considerations that are most relevant to engineers From fundamentals to plant operations Albright s Chemical Engineering Handbook offers a thorough yet succinct guide to day to day methods and calculations used in chemical engineering applications This handbook will serve the needs of practicing professionals as well as students preparing to enter the field

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 **Handbook of Dynamic System**

Modeling Paul A. Fishwick, 2007-06-01 The topic of dynamic models tends to be splintered across various disciplines making it difficult to uniformly study the subject Moreover the models have a variety of representations from traditional mathematical notations to diagrammatic and immersive depictions Collecting all of these expressions of dynamic models the Handbook of Dynamic Sy

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