

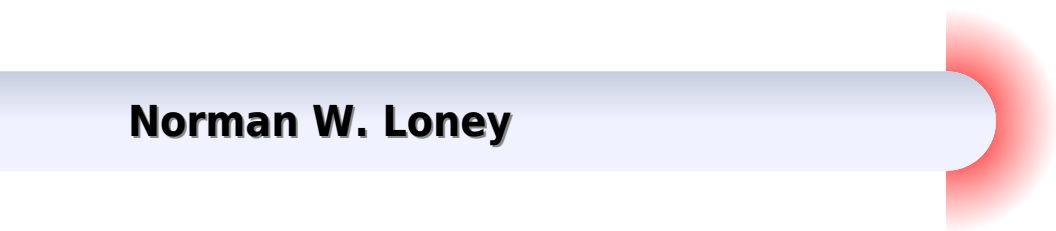
AN INTRODUCTION
TO NUMERICAL METHODS
FOR CHEMICAL ENGINEERS

SECOND EDITION

James B. Riggs

An Introduction To Numerical Methods For Chemical Engineers 2nd Ed

Norman W. Loney



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 (2nd Ed.) James B. Riggs,1994-01-15 **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

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 Engineers Using Excel, VBA, and MATLAB** Victor J. Law,2013-03-05 While teaching the Numerical Methods for Engineers course over the last 15 years, the author found

a need for a new textbook one that was less elementary provided applications and problems better suited for chemical engineers and contained instruction in Visual Basic for Applications VBA This led to six years of developing teaching notes that have been enhanced to create the current textbook Numerical Methods for Chemical Engineers Using Excel VBA and MATLAB Focusing on Excel gives the advantage of it being generally available since it is present on every computer PC and Mac that has Microsoft Office installed The VBA programming environment comes with Excel and greatly enhances the capabilities of Excel spreadsheets While there is no perfect programming system teaching this combination offers knowledge in a widely available program that is commonly used Excel as well as a popular academic software package MATLAB Chapters cover nonlinear equations Visual Basic linear algebra ordinary differential equations regression analysis partial differential equations and mathematical programming methods Each chapter contains examples that show in detail how a particular numerical method or programming methodology can be implemented in Excel and or VBA or MATLAB in chapter 10 Most of the examples and problems presented in the text are related to chemical and biomolecular engineering and cover a broad range of application areas including thermodynamics fluid flow heat transfer mass transfer reaction kinetics reactor design process design and process control The chapters feature Did You Know boxes used to remind readers of Excel features They also contain end of chapter exercises with solutions provided

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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 metho

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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

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