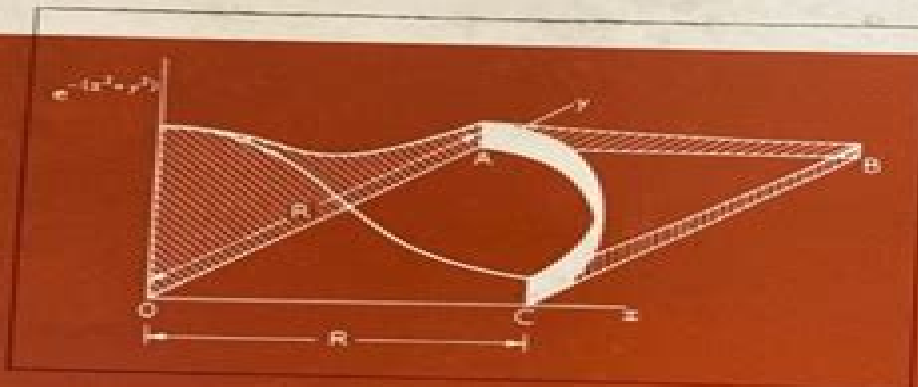


Mathematical Methods in Chemical Engineering

V. G. JENSON *and* G. V. JEFFREYS



Academic Press
LONDON AND NEW YORK

Mathematical Methods In Chemical Engineering

Jianjun Gao



Mathematical Methods In Chemical Engineering:

Mathematical Methods in Chemical Engineering V. G. Jensen, G. V. Jeffreys, 1977 Mathematical Methods in Chemical Engineering *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 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 **Mathematical**

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Mathematical Methods in Chemical and Biological Engineering describes basic to moderately advanced mathematical techniques useful for shaping the model based analysis of chemical and biological engineering systems Covering an ideal balance of basic mathematical principles and applications to physico chemical problems this book presents examples drawn from recent scientific and technical literature on chemical engineering biological and biomedical engineering food processing and a variety of diffusional problems to demonstrate the real world value of the mathematical methods Emphasis is placed on the background and physical understanding of the problems to prepare students for future challenging and innovative applications

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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 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 Mathematical methods in chemical engineering Victor G. Jenson,Godfrey V. Jeffreys,1972

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Mathematical Methods in Chemical Engineering: First-order partial differential equations with applications [by] Rutherford Aris [and] Neal R. Amundson Neal Russell Amundson,1966 *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 **Mathematical Methods in Chemical Engineering** Neal Russell Amundson,Rutherford Aris,1973 **Mathematical Methods in Chemical & Environmental Engineering** Ajay K. Ray,Santosh K. Gupta,2004 This comprehensive book covers a broad selection of mathematical topics that are essential for a modern chemical environmental engineer It features a blend of analytical and numerical techniques for solving problems in diverse areas such as heat and mass transfer thermodynamics fluid mechanics reaction engineering transport phenomena and process systems engineering This new text emphasizes problem solving and deals extensively with methods for solving systems of linear and non linear algebraic equations systems of linear and non linear ordinary and partial differential equations Students in chemical and environmental engineering would find this book useful for their undergraduate and post graduate courses It can also be used as a reference book for research students involved in computational work or even as a text in other related engineering areas involving computational activities and analytical concepts **Mathematical Methods in Chemical Engineering; Volume 2: First-Order Partial Differential Equations with Applications** ,1973 Mathematical Methods in Chemical Engineering: Amundson, N. R. Matrices and their application Neal Russell Amundson,1966

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