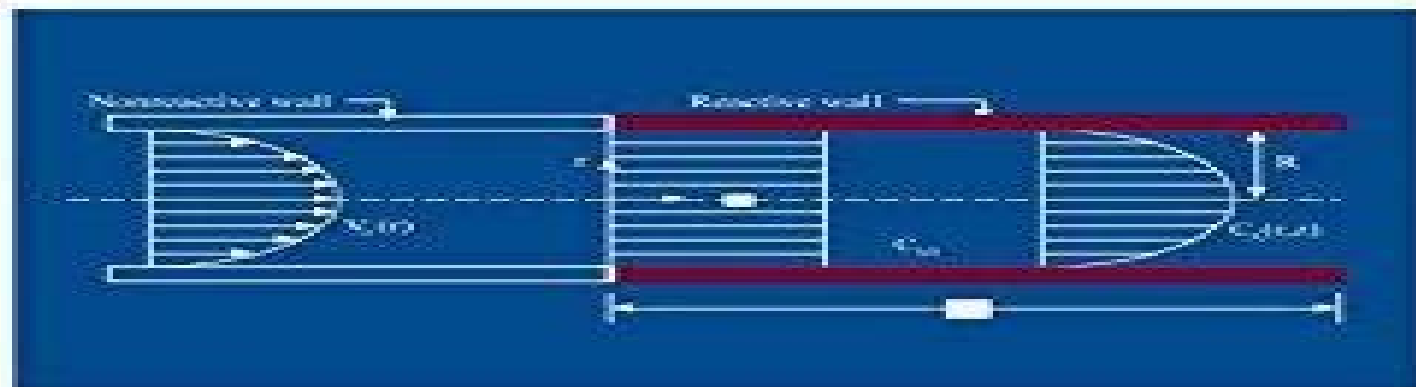


# APPLIED MATHEMATICAL METHODS for CHEMICAL ENGINEERS

Second Edition



Norman W. Loney



CRC Press  
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# Applied Mathematical Methods For Chemical Engineers Second Edition

**Norman W. Loney**



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appropriate books and literature      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      Closed-form Solutions for Drug Transport through Controlled-Release Devices in Two and Three Dimensions Laurent Simon,Juan Ospina,2015-04-27 Provides solutions for two and three dimensional linear models of controlled release systems Real world applications are taken from used to help illustrate the methods in Cartesian cylindrical and spherical coordinate systems Covers the modeling of drug delivery systems and provides mathematical tools to evaluate and build controlled release devices Includes classical and analytical techniques to solve boundary value problems involving two and three dimensional partial differential equations Provides detailed examples case studies and step by step analytical solutions to relevant problems using popular computational software      **Multi-objective Optimization: Techniques And Applications In Chemical Engineering (Second Edition)** Gade Pandu Rangaiah,2016-12-22 Optimization is now essential in the design planning and operation of chemical and related processes Although process optimization for multiple objectives was studied in the 1970s and 1980s it has attracted active research in the last 15 years spurred by the new and effective techniques for multi objective optimization MOO To capture this renewed interest this monograph presents recent research in MOO techniques and applications in chemical engineering Following a brief introduction and review of MOO applications in chemical engineering since 2000 the book presents selected MOO techniques and many chemical engineering applications in detail In this second edition several chapters from the first edition have been updated one chapter is completely revised and three new chapters have been added One of the new chapters describes three MS Excel programs useful for MOO of application problems All the chapters will be of interest to researchers in MOO and or chemical engineering Several exercises are included at the end of many chapters for use by both practicing engineers and students      **Modeling in Transport Phenomena** Ismail Tosun,2007-07-17 Modeling in Transport Phenomena Second Edition presents and clearly explains with example problems the basic concepts and their applications to fluid flow heat transfer mass transfer chemical reaction engineering and thermodynamics A balanced approach is presented between analysis and synthesis students will understand how to use the solution in engineering analysis Systematic derivations of the equations and the physical significance of each term are given in detail for students to easily understand and follow up the material There is a strong incentive in science and engineering to understand why a phenomenon behaves the way it does For this purpose a complicated real life problem is transformed into a mathematically tractable problem while preserving the essential features of it Such a process known as mathematical modeling requires understanding of the basic concepts This book teaches students these basic concepts and shows the similarities between

them Answers to all problems are provided allowing students to check their solutions Emphasis is on how to get the model equation representing a physical phenomenon and not on exploiting various numerical techniques to solve mathematical equations A balanced approach is presented between analysis and synthesis students will understand how to use the solution in engineering analysis Systematic derivations of the equations as well as the physical significance of each term are given in detail Many more problems and examples are given than in the first edition answers provided



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