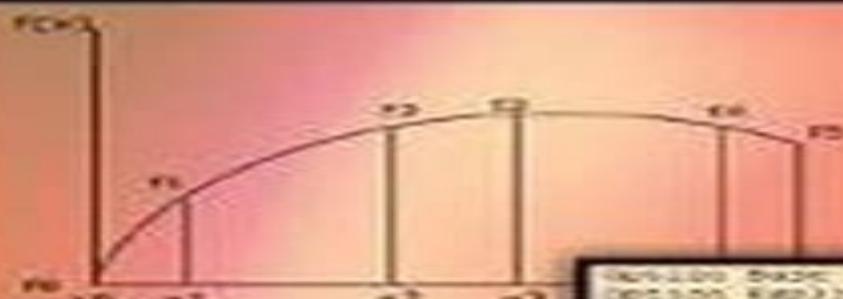


# Numerical Methods for Chemical Engineers Using Excel<sup>®</sup>, VBA, and MATLAB<sup>®</sup>



```
OPTION BASE 1
OPTION EXPLICIT
Function Function_Temperature(x, y) As Double
    Dim xC, yC, zC As Double
    xC = x
    yC = y
    zCTemp = z * (Tdb - yC) / (Tdb - y)
    'Tdb = 298.15
    'Tdb = 298.15

    Dim z As Double
    Dim xC As Double
    Dim yC As Double
    zC = 0.0001

    Function_Temp(z, xC) = 0
    For i = 1 To 10
        Function_Temp(z, xC) = zCTemp * (Tdb - yC) / (Tdb - y)
        zC = zC * 0.5
    Next i
    Function_Temp = zCTemp
End Function
```

**Victor J. Law**

# Numerical Methods For Chemical Engineers Using Excel Vba And Matlab

**Norman W. Loney**



## **Numerical Methods For Chemical Engineers Using Excel Vba And Matlab:**

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 **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 Introduction to Modeling and Numerical Methods for Biomedical and Chemical Engineers Edward Gatzke, 2021-09-02 This textbook introduces the concepts and tools that biomedical and chemical engineering students need to know in order to translate engineering problems into a numerical representation using scientific fundamentals Modeling concepts focus on problems that are directly related to biomedical and chemical engineering A variety of computational tools are presented including MATLAB Excel Mathcad and COMSOL and a brief introduction to each tool is accompanied by multiple computer lab experiences The numerical methods covered are basic linear algebra and basic statistics and traditional methods like Newton's method Euler Integration and trapezoidal integration The book presents the reader with numerous examples and worked problems and practice problems are included at the end of each chapter **Chemical Engineering Analysis and Optimization Using MATLAB** Weiguo Xie, Sam Toan, Richard Davis, 2025-01-22 Tackle challenging optimization problems with MATLAB software Optimization techniques measure the minimum or maximum value of a given function depending on circumstances constraints and key factors Engineering processes pertaining to design or manufacture involve optimization techniques at every stage designed to minimize resource expenditure and maximize outcomes Optimization problems can be challenging and computationally intensive but the increasingly widely used MATLAB platform offers numerous tools enabling engineers to tackle these essential elements of process and industrial design **Chemical Engineering Analysis and Optimization Using MATLAB** introduces cutting edge highly in demand skills in computer aided design and optimization With a focus on chemical engineering analysis the book uses the MATLAB platform to develop reader skills in programming modeling and more It provides an overview of some of the most essential tools in modern engineering design **Chemical Engineering Analysis and Optimization Using MATLAB** readers will also find Case studies for developing specific skills in MATLAB and beyond Examples of code both within the text and on a companion website End of chapter problems with an accompanying solutions manual for instructors This textbook is ideal for advanced undergraduate and graduate students in chemical engineering and related disciplines as well as professionals with backgrounds in engineering design **Chemometrics** Richard G.

Brereton, 2018-05-29 A new full color completely updated edition of the key practical guide to chemometrics This new edition of this practical guide on chemometrics emphasizes the principles and applications behind the main ideas in the field using numerical and graphical examples which can then be applied to a wide variety of problems in chemistry biology chemical engineering and allied disciplines Presented in full color it features expansion of the principal component analysis classification multivariate evolutionary signal and statistical distributions sections and new case studies in metabolomics as well as extensive updates throughout Aimed at the large number of users of chemometrics it includes extensive worked problems and chapters explaining how to analyze datasets in addition to updated descriptions of how to apply Excel and Matlab for chemometrics

Chemometrics Data Driven Extraction for Science Second Edition offers chapters covering experimental design signal processing pattern recognition calibration and evolutionary data The pattern recognition chapter from the first edition is divided into two separate ones Principal Component Analysis Cluster Analysis and Classification It also includes new descriptions of Alternating Least Squares ALS and Iterative Target Transformation Factor Analysis ITTFA Updated descriptions of wavelets and Bayesian methods are included Includes updated chapters of the classic chemometric methods e g experimental design signal processing etc Introduces metabolomics type examples alongside those from analytical chemistry Features problems at the end of each chapter to illustrate the broad applicability of the methods in different fields Supplemented with data sets and solutions to the problems on a dedicated website [www.booksupport.wiley.com](http://www.booksupport.wiley.com) Chemometrics Data Driven Extraction for Science Second Edition is recommended for post graduate students of chemometrics as well as applied scientists e g chemists biochemists engineers statisticians working in all areas of data analysis

*Numerical Methods for Chemical Engineers with MATLAB Applications* A. Constantinides, Navid Mostoufi, 1999 Master numerical methods using MATLAB today's leading software for problem solving This complete guide to numerical methods in chemical engineering is the first to take full advantage of MATLAB's powerful calculation environment Every chapter contains several examples using general MATLAB functions that implement the method and can also be applied to many other problems in the same category The authors begin by introducing the solution of nonlinear equations using several standard approaches including methods of successive substitution and linear interpolation the Wegstein method the Newton Raphson method the Eigenvalue method and synthetic division algorithms With these fundamentals in hand they move on to simultaneous linear algebraic equations covering matrix and vector operations Cramer's rule Gauss methods the Jacobi method and the characteristic value problem Additional coverage includes Finite difference methods and interpolation of equally and unequally spaced points Numerical differentiation and integration including differentiation by backward forward and central finite differences Newton Cotes formulas and the Gauss Quadrature Two detailed chapters on ordinary and partial differential equations Linear and nonlinear regression analyses including least squares estimated vector of parameters method of steepest descent Gauss Newton method Marquardt Method Newton Method and multiple nonlinear

regression The numerical methods covered here represent virtually all of those commonly used by practicing chemical engineers The focus on MATLAB enables readers to accomplish more with less complexity than was possible with traditional FORTRAN For those unfamiliar with MATLAB a brief introduction is provided as an Appendix Over 60 MATLAB examples methods and function scripts are covered and all of them are included on the book's CD [Applied Numerical Methods for Chemical Engineers](#) Navid Mostoufi, Alkis Constantinides, 2022-05-22 Applied Numerical Methods for Chemical Engineers emphasizes the derivation of a variety of numerical methods and their application to the solution of engineering problems with special attention to problems in the chemical engineering field These algorithms encompass linear and nonlinear algebraic equations eigenvalue problems finite difference methods interpolation differentiation and integration ordinary differential equations boundary value problems partial differential equations and linear and nonlinear regression analysis MATLAB is adopted as the calculation environment throughout the book because of its ability to perform all the calculations in matrix form its large library of built-in functions its strong structural language and its rich graphical visualization tools Through this book students and other users will learn about the basic features advantages and disadvantages of various numerical methods learn and practice many useful m-files developed for different numerical methods in addition to the MATLAB built-in solvers develop and set up mathematical models for problems commonly encountered in chemical engineering and solve chemical engineering related problems through examples and after chapter problems with MATLAB by creating application m-files Clearly and concisely develops a variety of numerical methods and applies them to the solution of chemical engineering problems These algorithms encompass linear and nonlinear algebraic equations eigenvalue problems finite difference methods interpolation linear and nonlinear regression analysis differentiation and integration ordinary differential equations boundary value problems and partial differential equations Includes systematic development of the calculus of finite differences and its application to the integration of differential equations and a detailed discussion of nonlinear regression analysis with powerful programs for implementing multivariable nonlinear regression and statistical analysis of the results Makes extensive use of MATLAB and Excel with most of the methods discussed implemented into general MATLAB functions All the MATLAB language scripts developed are listed in the text and included in the book's companion website Includes numerous real world examples and homework problems drawn from the field of chemical and biochemical engineering **Practical Numerical Methods for Chemical Engineers** Richard A. Davis, 2013-09-25 A NEW 3rd third edition of this popular title is now available with updated and expanded coverage of Practical Numerical Methods Using Excel with VBA For more information visit [www.d.umn.edu/~rdavis/PNM/PNMLExcelVBA3](http://www.d.umn.edu/~rdavis/PNM/PNMLExcelVBA3) Excel is the de facto computational tool used by practicing engineers and scientists Use this book to become proficient with VBA programming and boost your worksheets with time saving enhancements and powerful numerical techniques Topics include an introduction to modeling Excel and VBA programming root finding for systems of linear and nonlinear equations derivative

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**Numerical Methods for Engineers** Steven C. Chapra, Raymond P. Canale, 2002 The Fourth Edition of *Numerical Methods for Engineers* continues the tradition of excellence it established as the winner of the ASEE Meriam Wiley award for Best Textbook Instructors love it because it is a comprehensive text that is easy to teach from Students love it because it is written for them with great pedagogy and clear explanations and examples throughout This edition features an even broader array of applications including all engineering disciplines The revision retains the successful pedagogy of the prior editions Chapra and Canale's unique approach opens each part of the text with sections called Motivation Mathematical Background and Orientation preparing the student for what is to come in a motivating and engaging manner Each part closes with an Epilogue containing sections called Trade Offs Important Relationships and Formulas and Advanced Methods and Additional References Much more than a summary the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods What's new in this edition A shift in orientation toward more use of software packages specifically MATLAB and Excel with VBA This includes material on developing MATLAB m files and VBA macros In addition the text has been updated to reflect improvements in MATLAB and Excel since the last edition Also many more and more challenging problems are included The expanded breadth of engineering disciplines covered is especially evident in the problems which now cover such areas as biotechnology and

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*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

**Numerical Methods with Chemical Engineering Applications** Kevin D. Dorfman, Prodromos Daoutidis, 2017-01-11 Designed primarily for undergraduates but also graduates and practitioners this textbook integrates numerical methods and programming with applications from chemical engineering Combining mathematical rigor with an informal writing style it thoroughly introduces the theory underlying numerical methods its translation into MATLAB programs and its use for solving realistic problems Specific topics covered include accuracy convergence and numerical stability as well as stiffness and ill conditioning MATLAB codes are developed from scratch and their implementation is explained in detail all while assuming limited programming knowledge All scripts employed are downloadable and built in MATLAB functions are discussed and contextualised Numerous examples and homework problems from simple questions to extended case studies accompany the text allowing students to develop a deep appreciation for the range of real chemical engineering problems that can be solved using numerical methods This is the ideal resource for a single semester course on numerical methods as well as other chemical engineering courses taught over multiple semesters

**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

**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 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

**Numerical Methods with Worked Examples: Matlab Edition** C. Woodford,C. Phillips,2011-09-08 This book is for students following an introductory course in numerical methods numerical techniques or numerical analysis It introduces MATLAB as a computing environment for experimenting with numerical methods It approaches the subject from a pragmatic viewpoint theory is kept at a minimum commensurate with comprehensive coverage of the subject and it contains abundant worked examples which provide easy understanding through a clear and concise theoretical treatment This edition places even greater emphasis on learning by doing than the previous edition Fully documented MATLAB code for the numerical methods described in the book will be available as supplementary material to the book on [http extras springer com](http://extras.springer.com)

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[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

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