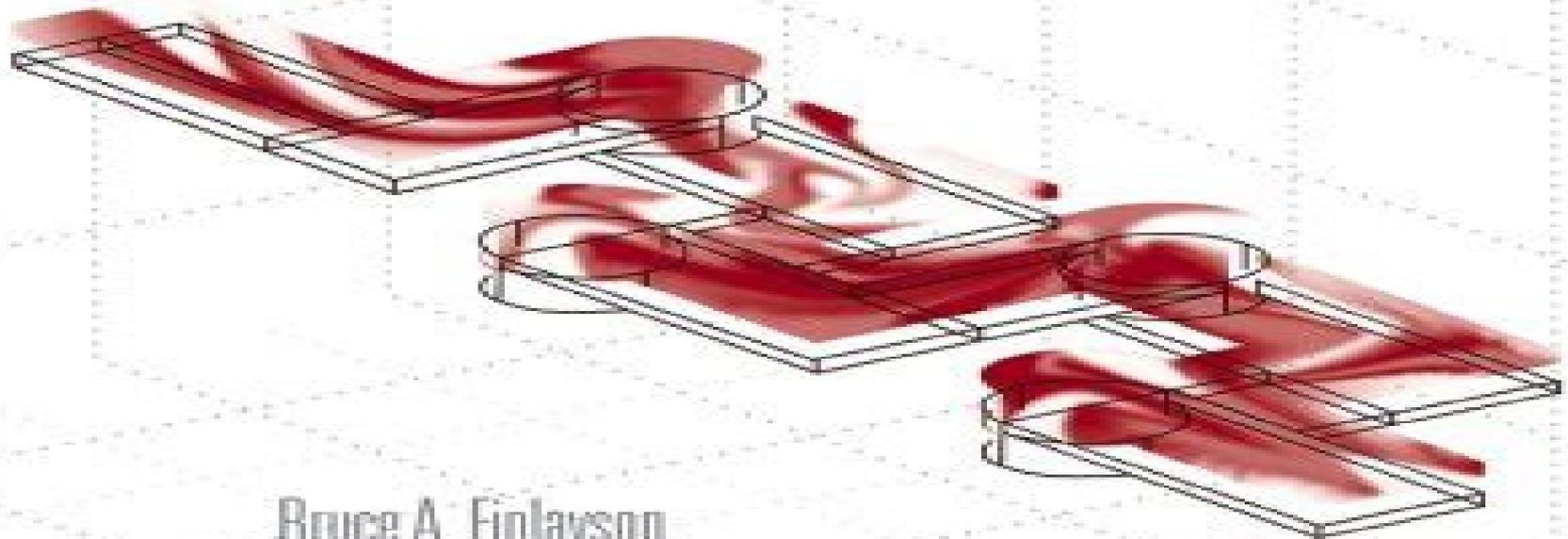


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Bruce A. Finlayson

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NUMERICAL, SYMBOLIC AND STATISTICAL COMPUTING FOR CHEMICAL ENGINEERS USING MATLAB Ghosh, Pallab, 2018-09-01 Numerical analytical and statistical computations are routine affairs for chemical engineers They usually prefer a single software to solve their computational problems and at present MATLAB has emerged as a powerful computational language which is preferably used for this purpose due to its built in functions and toolboxes Considering the needs and convenience of the students the author has made an attempt to write this book which explains the various concepts of MATLAB in a systematic way and makes its readers proficient in using MATLAB for computing It mainly focuses on the applications of MATLAB rather than its use in programming basic numerical algorithms Commencing with the introduction to MATLAB the text covers vector and matrix computations solution of linear and non linear equations differentiation and integration and solution of ordinary and partial differential equations Next analytical computations using the Symbolic Math Toolbox and statistical computations using the Statistics and Machine Learning Toolbox are explained Finally the book describes various curve fitting techniques using the Curve Fitting Toolbox Inclusion of all these advanced level topics in the book stands it out from the rest

KEY FEATURES Numerous worked out examples to enable the readers understand the steps involved in solving the chemical engineering problems MATLAB codes to explain the computational techniques Several snapshots to help the readers understand the step by step procedures of using the toolboxes Chapter end exercises including short answer questions and numerical problems Appendix comprising the definitions of some important and special matrices Supplemented with Solutions Manual containing complete detailed solutions to the unsolved analytical problems Accessibility of selected colour figures including screenshots and results

outputs of the programs cited in the text at www.phindia.com Pallab_Ghosh TARGET AUDIENCE BE B Tech Chemical Engineering ME M Tech Chemical Engineering [An Introduction to Numerical Methods for Chemical Engineers \(2nd Ed. \)](#)

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computer systems which aims to give the beginner an overview of practical computing The potential applications of computers are pointed out and students are encouraged to use computers to solve problems and enhance their own work practices The book is aimed at those taking an IT conversion course and arts students who need an overview of computing

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Chemical Engineers offers a practical guide to the chemical engineer faced with a problem of computing. The computer is a servant not a master; its value depends on the instructions it is given. This book aims to help the chemical engineer in the right choice of these instructions. The text begins by outlining the principles of operation of digital and analogue computers and then discussing the difficulties which arise in formulating a problem for solution on such a machine. This is followed by separate chapters on digital computers and their programming, the use of digital computers in chemical engineering design, work optimization techniques and their application in the selection of optimum designs, the solution of sets of non-linear algebraic equations via hill climbing and determination of equilibrium compositions by minimization of Gibbs free energy. Subsequent chapters discuss the solution of partial or simultaneous differential equations, parameter estimation in differential equations, continuous systems and analogue computers.

Computational Methods in Chemical Engineering with Maple Ralph E. White, Venkat R. Subramanian, 2010-02-06. This book presents Maple solutions to a wide range of problems relevant to chemical engineers and others. Many of these solutions use Maple's symbolic capability to help bridge the gap between analytical and numerical solutions. The readers are strongly encouraged to refer to the references included in the book for a better understanding of the physics involved and for the mathematical analysis. This book was written for a senior undergraduate or a first year graduate student course in chemical engineering. Most of the examples in this book were done in Maple 10. However, the codes should run in the most recent version of Maple. We strongly encourage the readers to use the classic worksheet mws option in Maple as we believe it is more user friendly and robust. In chapter one you will find an introduction to Maple which includes simple basics as a convenience for the reader such as plotting, solving linear and nonlinear equations, Laplace transformations, matrix operations, do loop and while loop. Chapter two presents linear ordinary differential equations in section 1 to include homogeneous and nonhomogeneous ODEs, solving systems of ODEs using the matrix exponential and Laplace transform method. In section two of chapter two, nonlinear ordinary differential equations are presented and include simultaneous series reactions, solving nonlinear ODEs with Maple's dsolve command, stop conditions, differential algebraic equations and steady state solutions. Chapter three addresses boundary value problems.

Numerical, Symbolic and Statistical Computing for Chemical E Pallab Ghosh, 2018-10-30. *CADCAM in Education and Training* Paul Arthur, 2012-12-06. **Introduction Chemical Engineering Computing** Etter, Schneider, 2002-05. **Scientific Computing in Chemical Engineering** Frerich Keil, Wolfgang Mackens, Heinrich Voß, Joachim Werther, 2012-12-06. Scientific Computing in Chemical Engineering gives the state of the art from the point of view of the numerical mathematicians as well as from the engineers. The application of modern methods in numerical mathematics on problems in chemical engineering especially reactor modeling, process simulation, process optimization and the use of parallel computing is detailed.

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