

## *Numerical Methods For Chemical Engineering Beers Solutions*

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This course focuses on the use of modern computational and mathematical techniques in chemical engineering. Starting from a discussion of linear systems as the basic computational unit in scientific computing, methods for solving sets of nonlinear algebraic equations, ordinary differential equations, and differential-algebraic (DAE) systems are presented.

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MATLAB Numerical Methods with Chemical Engineering Applications shows you, step by step, how to use MATLAB® to model and simulate physical problems in the chemical engineering realm. Written for MATLAB 7.11, this hands-on resource contains concise explanations of essential MATLAB commands, as well as easy-to-follow instructions for using the programming features, graphical capabilities, and desktop interface.

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Numerical Methods with Chemical Engineering Applications 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

### **Numerical Methods with Chemical Engineering Applications**

Table of Contents 1. MATLAB Basics. 2. Living with Matrices. 3. MATLAB Scripting Language: M-File. 4. Image and Image Analysis. 5. Curve-Fitting. 6. Numerical Integration. 7. Solving Differential Equations. 8. A System of Algebraic Equations. 9. Statistics. 10. Chemical Engineering ...

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### **MATLAB Numerical Methods with Chemical Engineering ...**

Numerical methods and modeling for chemical engineers. Bibliography: p. Includes index. 1. Chemical engineering-Mathematical models. 2. Differential equations. 1. Title. TP155.D33 1984 ISBN 0-471-88761-7 660.2'8'0724 83-21590 Printed in the United States of America 10 9 8 7 6 5 4 3 2 1

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