Numerical Methods For Chemical Engineers With Matlab Applications

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Numerical Methods for Chemical Engineers: A MATLAB-based Approach Raymond A. Adomaitis Department of Chemical & Biomolecular Engineering and Institute for Systems Research University of Maryland College Park, MD 20742 adomaiti@umd.edu { thin lm.umd.edu This work is licensed under Creative Commons

Numerical Methods for Chemical Engineers
He has taught classes in process control, transport phenomena, process design, engineering statistics, and numerical methods for chemical engineers. His research has included projects in coastal erosion, methane emissions from rice paddies, thermochemical processes for hydrogen production from water, and butanol production from biomass.

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Numerical Methods for Chemical Engineering
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MATLAB Numerical Methods with Chemical Engineering ...
The aim is to provide an understanding ofhow the subroutines work in order to help the engineer gain maximum benefit from them. This book outlines numerical techniques for differential equations that either illustrate a computational property ofinterest or are the underlying methods of

a computer software package.

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The implementation of numerical methods in MATLAB is integrated within each chapter and numerous examples in chemical engineering are provided, with a library of corresponding MATLAB programs. This book will provide the graduate student with essential tools required by industry and research alike.

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According to a CACHE survey of chemical engineering graduates (Edgar 2003): 100% use a computer every day. 98% use Excel or comparable spreadsheet programs (88% for data analysis; 47% for numerical analysis, 25% for mate-. rial and energy balances, 24% for economic studies).

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