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Applications By Constantinides And Mostoufi***

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Numerical Methods for Chemical Engineers: A MATLAB-based Approach Raymond A. Adomaitis
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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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The aim is to provide an understanding of how 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 of interest 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 material and energy balances, 24% for economic studies).

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