

Third Edition

Applied Mathematics and Modeling for Chemical Engineers

Richard G. Rice | Duong D. Do | James E. Maneval



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Applied Mathematics In Chemical Engineering

Tao Wei



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Applied Mathematical Methods for Chemical Engineers Norman W. Loney, 2000-09-28 Although most realistic process engineering models require numerical solution it is important for chemical engineering students to have an understanding of the gross tendencies of the particular model they are using This understanding most naturally arises from deriving analytical solutions of a modified version of the problem being considered Analytical models also allow for easier process optimizations Emphasizing these analytical methods **Applied Mathematical Methods for Chemical Engineers** introduces several techniques essential to solving real problems The author's presentation shows students how to translate a problem from prose to mathematical symbolism and allows them to inductively build on previous experience Designed for senior undergraduates and first year graduates the text provides detailed examples that allow students to experience how to actually use the methods presented It contains an entire chapter of fully worked examples involving traditional mass heat and momentum applications along with cutting edge technologies such as membrane separation and chemical vapor deposition Another chapter acquaints readers with selected numerical methods and available software packages Favoring clear practical exposition over strict mathematical rigor **Applied Mathematical Methods for Chemical Engineers** removes the mathematics phobia that often exists among chemical engineering students It allows them to learn by example the techniques they will need to solve problems in practice **Applied Mathematics and Modeling for Chemical Engineers** Richard G. Rice, Duong D. Do, James E. Maneval, 2023-03-21 Understand the fundamentals of applied mathematics with this up to date introduction Applied mathematics is the use of mathematical concepts and methods in various applied or practical areas including engineering computer science and more As engineering science expands the ability to work from mathematical principles to solve and understand equations has become an ever more critical component of engineering fields New engineering processes and materials place ever increasing mathematical demands on new generations of engineers who are looking more and more to applied mathematics for an expanded toolkit **Applied Mathematics and Modeling for Chemical Engineers** provides this toolkit in a comprehensive and easy to understand introduction Combining classical analysis of modern mathematics with more modern applications it offers everything required to assess and solve mathematical problems in chemical engineering Now updated to reflect contemporary best practices and novel applications this guide promises to situate readers in a 21st century chemical engineering field in which direct knowledge of mathematics is essential Readers of the third edition of **Applied Mathematics and Modeling for Chemical Engineers** will also find Detailed treatment of ordinary differential equations ODEs and partial differential equations PDEs and their solutions New material concerning approximate solution methods like perturbation techniques and elementary numerical solutions Two new chapters dealing with Linear Algebra and Applied Statistics **Applied Mathematics and Modeling for Chemical Engineers** is ideal for graduate and advanced undergraduate students in chemical engineering and related fields as well as instructors and researchers seeking a handy

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