Introduction to Chemical Engineering Computing

Bruce A. Finlayson

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An innovative introduction to chemical engineering computing As chemical engineering technology advances, so does the complexity of the problems that arise. The problemsthat chemical engineers and chemical engineering students face today can no longer be answered with programs written on a case-by-case basis. Introduction to Chemical Engineering Computing teaches professionalsand students the kinds of problems they will have to solve, the types of computer programs needed to solve these problems, and how to ensure that the problems have been solved correctly. Each chapter in Introduction to Chemical Engineering Computing contains a description of the physicalproblem in general terms and in a mathematical context, thorough step-by-step instructions, numerous examples,and comprehensive explanations for each problem and program. This indispensable text features Excel,MATLAB(r), Aspen PlusTM, and FEMLAB programs and acquaints readers with the advantages of each. Perfect for students and professionals, Introduction to Chemical Engineering Computing gives readers the professional tools they need to solve real-world problems involving: Equations of state Vapor-liquid and chemical reaction equilibria Mass balances with recycle streams Mass transfer equipment Process simulation Chemical reactors Transfer processes in 1D Fluid flow in 2D and 3D Convective diffusion equations in 2D and 3D

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