



## Computer-Aided Modeling of Reactive Systems

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Wiley-AIChE, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Chapter 1. Overview. References. Chapter 2. Chemical Reaction Models. 2.1 Stoichiometry of Reaction Schemes. 2.2 Computability of Reaction Rates from Data. 2.3 Equilibria of Chemical Reactions. 2.4 Kinetics of Elementary Steps. 2.5 Properties of Reaction Networks. 2.6 Evidence for Reaction Steps. References. Chapter 3. Chemical Reactor Models. 3.1 Macroscopic Conservation Equations. 3.2 Heat and Mass Transfer in Fixed Beds. 3.3 Interfacial States in Fixed-Bed Reactors. 3.4 Material Transport in Porous Catalysts. 3.4.1 Material Transport in a Cylindrical Pore Segment. 3.4.2 Material Transport in a Pore Network. 3.4.3 Working Models of Flow and Diffusion an Isotropic Media. 3.4.4 Discussion. 3.4.5 Transport and Reaction in Porous Catalysts. 3.5 Gas Properties at Low Pressures. 3.6 Notation. References. Chapter 4. Introduction to Probability and Statistics. 4.1 Strategy of Data-Based Investigation. 4.2 Basic Concepts in Probability Theory. 4.3 Distributions of Sums of Random Variables. 4.4 Multiresponse Normal Error Distributions. 4.5 Statistical Inference and Criticism. References. Chapter 5. Introduction to Bayesian Estimation. 5.1 The Theorem. 5.2 Bayesian Estimation with Informative Priors. 5.3 Introduction to Noninformative Priors. 5.4 Jeffreys' Prior for One-Parameter Models. 5.5 Jeffreys' Prior for Multiparameter Models. 5.6 Summary....



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