

Practical Chemical Computer simulation: MATLAB in chemical engineering (with plate)



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(Rene Olson)

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paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 301 Publisher: Chemical Industry Press Pub. Date :2004-07. The book is nine chapters. Chapter 1 is an overview of chemical simulation. simulation of chemical importance of the main narrative. numerical computing technology development status. and other chemical simulation literature review. Chapter 2 introduces the MATLAB Programming Fundamentals. Introduction to MATLAB help the reader quickly. Chapter 3. with examples and numerical methods commonly used in the appropriate use of MATLAB functions. including interpolation and fitting. numerical integration and numerical differentiation. linear and nonlinear algebraic equation (group) of the numerical solution of ordinary differential equations first value problems and boundary value problems solution and so on. Chapter 4. devoted to chemical ODE initial value problems and boundary value problems application examples. including the batch reactor. continuous stirred tank reactor trough. tube-type reactor. semi-continuous reactor. the mass transfer process. accompanied by the reaction diffusion process. heat transfer. fluid flow. biochemical reactions and process control. Chapter 5 is the chemical in the solution of partial differential equations and to introduce the finite difference method. orthogonal collocation method. MOL and finite element method. finite element method which introduces the MATLAB PDE solver and solve chemical engineering PDE problems specific methods. examples include the one-dimensional dynamic equations. two-dimensional steady-state equation (group). two-dimensional dynamic equations and other issues. Chapter 6 describes the most commonly used optimization method and MATLAB algorithms. including single-variable optimization problems. linear programming. multi-variable unconstrained optimization problems. quadratic programming. multi-variable constrained optimization (nonlinear programming) problem and the least squares method. Chapter 7 describes in detail with examples of parameter estimation methods and model identification side more Contents: Chapter 1 Overview of chemical simulation of the importance of simulation of chemical 1.1 1.2...

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