

ANALYSIS, SYNTHESIS, AND DESIGN OF CHEMICAL PROCESSES

FIFTH EDITION

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well as an extensive new section focused on process equipment design and performance covering equipment design for common unit operations such as fluid flow heat transfer separations reactors and more Conceptualization and analysis process diagrams configurations batch processing product design and analyzing existing processes Economic analysis estimating fixed capital investment and manufacturing costs measuring process profitability and more Synthesis and optimization process simulation thermodynamic models separation operations heat integration steady state and dynamic process simulators and process regulation Chemical equipment design and performance a full section of expanded and revamped coverage of designing process equipment and evaluating the performance of current equipment Advanced steady state simulation goals models solution strategies and sensitivity and optimization results Dynamic simulation goals development solution methods algorithms and solvers Societal impacts ethics professionalism health safety environmental issues and green engineering Interpersonal and communication skills working in teams communicating effectively and writing better reports This text draws on a combined 55 years of innovative instruction at West Virginia University WVU and the University of Nevada Reno It includes suggested curricula for one and two semester design courses case studies projects equipment cost data and extensive preliminary design information for jump starting more detailed analyses

Problem Solving in Chemical and Biochemical Engineering with POLYMATH, Excel, and MATLAB Michael B. Cutlip, Mordechai Shacham, 2008 Problem Solving in Chemical and Biochemical Engineering with POLYMATH Excel and MATLAB Second Edition is a valuable resource and companion that integrates the use of numerical problem solving in the three most widely used software packages POLYMATH Microsoft Excel and MATLAB Recently developed POLYMATH capabilities allow the automatic creation of Excel spreadsheets and the generation of MATLAB code for problem solutions Students and professional engineers will appreciate the ease with which problems can be entered into POLYMATH and then solved independently in all three software packages while taking full advantage of the unique capabilities within each package The book includes more than 170 problems requiring numerical solutions This greatly expanded and revised second edition includes new chapters on getting started with and using Excel and MATLAB It also places special emphasis on biochemical engineering with a major chapter on the subject and with the integration of biochemical problems throughout the book

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Fertilizer Manual Travis P. Hignett,2013-04-17 This Fertilizer Manual was prepared by the International Fertilizer Development Center IFDC as a joint project with the United Nations Industrial Development Organization UNIDO It is designed to replace the UN Fertilizer Manual published in 1967 and intended to be a reference source on fertilizer

production technology and economics and fertilizer industry planning for developing countries The aim of the new manual is to describe in clear simple language all major fertilizer processes their requirements advantages and disadvantages and to show illustrative examples of economic evaluations The manual is organized in five parts Part I deals with the history of fertilizers world outlook the role of fertilizers in agriculture and raw materials and includes a glossary of fertilizer related terms Part II covers the production and transportation of ammonia and all important nitrogen fertilizers liquids and solids Part III deals with the characteristics of phosphate rock production of sulfuric and phosphoric acid and all important phosphate fertilizers including nitrophosphates and ammonium phosphates Part IV deals with potash fertilizers ore mining and refining and chemical manufacture compound fertilizers secondary and micronutrients controlled release fertilizers and physical properties of fertilizers Part V includes chapters on planning a fertilizer industry pollution control the economics of production of major fertilizer products and intermediates and problems facing the world fertilizer industry

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Chemical Process Retrofitting and Revamping Gade Pandu Rangaiah,2016-01-22 The proposed book will be divided into three parts The chapters in Part I provide an overview of certain aspect of process retrofitting The focus of Part II is on computational techniques for solving process retrofit problems Finally Part III addresses retrofit applications from diverse process industries Some chapters in the book are contributed by practitioners whereas others are from academia Hence the book includes both new developments from research and also practical considerations Many chapters include examples with realistic data All these features make the book useful to industrial engineers researchers and students

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