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for managing the key factors affecting the plant dynamics and operation health safety and environment issues as well as sustainability analysis for achieving high environmental performance All chapters are completely rewritten or have been revised This new edition is suitable as teaching material for Chemical Process and Product Design courses for graduate MSc students being compatible with academic requirements world wide The inclusion of the newest design methods will be of great value to professional chemical engineers Systematic approach to developing innovative and sustainable chemical processes Presents generic principles of process simulation for analysis creation and assessment Emphasis on sustainable development for the future of process industries Stochastic Process Optimization using Aspen Plus® Juan Gabriel Segovia-Hernández, Fernando Israel Gómez-Castro, 2017-11-01 Stochastic Process Optimization using Aspen Plus Bookshop Category Chemical Engineering Optimization can be simply defined as choosing the best alternative among a set of feasible options In all the engineering areas optimization has a wide range of applications due to the high number of decisions involved in an engineering environment Chemical engineering and particularly process engineering is not an exception thus stochastic methods are a good option to solve optimization problems for the complex process engineering models In this book the combined use of the modular simulator Aspen Plus and stochastic optimization methods codified in MATLAB is presented Some basic concepts of optimization are first presented then strategies to use the simulator linked with the optimization algorithm are shown Finally examples of application for process engineering are discussed. The reader will learn how to link the process simulator Aspen Plus and stochastic optimization algorithms to solve process design problems They will gain ability to perform multi objective optimization in several case studies Key Features The book links simulation and optimization through numerical analyses and stochastic optimization techniques Includes use of examples to illustrate the application of the concepts and specific guidance on the use of software Aspen Plus Excel MATLB to set up and solve models representing complex problems Illustrates several examples of applications for the linking of simulation and optimization software with other packages for optimization purposes Provides specific information on how to implement stochastic optimization with process simulators Enable readers to identify practical and economic solutions to problems of industrial relevance enhancing the safety operation environmental and economic performance of chemical processes Chemical **Process Simulations using Aspen Hysys** Khalid W. Hameed, 2025-07-16 An intuitive guide to using Aspen HYSYS for chemical petrochemical and petroleum industry process simulations including interactive process flow diagrams In Chemical Process Simulations using Aspen Hysys distinguished lecturer Dr Khalid W Hameed delivers an up to date and authoritative discussion of the simulation and design of chemical petrochemical and petroleum industry processes using Aspen HYSYS The book includes coverage of many chemical engineering topics including fluid flow reactors unit operation of heat and mass transfer oil refinery process and control systems Readers will also find highly interactive process flow diagrams for building and navigating through large simulations as well as A thorough introduction to the use of Aspen HYSYS for the chemical oil

and petrochemical industries Skill development techniques for users of Aspen HYSYS and strategies for improving the accuracy of results Practical discussions of Dynamic State Simulation with explanations of how to install control systems for the process using flash separator gas processing and advanced process control such as ratio control cascade control and split range control Illustrative examples of Plant Wide Projects that demonstrate the ability of Aspen HYSYS to perform a full plant Perfect for research and development engineers in the fields of petrochemical chemical and petroleum engineering Chemical Process Simulations using Aspen HYSYS will also benefit researchers with an interest in the area **European Symposium on Computer Aided Process Engineering - 11** R. Gani, S.B. Jørgensen, 2001-04-30 This book contains papers presented at the 11th Symposium of Computer Aided Process Engineering ESCAPE 11 held in Kolding Denmark from May 27 30 2001 The objective of ESCAPE 11 is to highlight the use of computers and information technology tools that is the traditional CAPE topics as well as the new CAPE topics of current and future interests The main theme for ESCAPE 11 is process and tools integration with emphasis on hybrid processing cleaner and efficient technologies process integration computer aided systems for modelling design synthesis control tools integration and industrial case studies application of integrated strategies The papers are arranged in terms of the following themes computer aided control operations computer aided manufacturing process and tools integration and new frontiers in CAPE A total of 188 papers consisting of 5 keynote and 183 *Process Synthesis and Process Intensification* Ben-Guang Rong, 2017-09-25 contributed papers are included in this book Process synthesis and process intensification are becoming state of the art scientific fields that provide the methods and tools to improve process technologies in terms of high energy efficiency low capital investment low emissions improved safety and less hazardous byproducts to achieve sustainable products and processes The book covers manufacturing processes from both fossil and biomass based feedstocks for graduate students

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