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Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications
Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications
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ASPEN PLUS Introductory Manual ASPEN PLUS System Administration Manual CHEMICAL PROCESS SIMULATION AND THE ASPEN PLUS V10.0 SOFTWARE. Aspen Plus Modeling of the SRC-I Demonstration Plant ASPEN PLUS Costing Manual Simulation of Incineration Waste Processing with ASPEN PLUS ASPEN PLUS User Manual Simulation and Optimization of a Hydrogen Plant with ASPEN PLUS Aspen Plus Applications

A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an

accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software. A comprehensive and practical resource, the text uses both Aspen Plus and Aspen Hysys simulation software. The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys. The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors,

separators, and heat exchangers. The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used. In addition, to aid in comprehension, solutions to examples of real problems are included. The final section covers plant design and simulation of processes using nonconventional components. This important resource: Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical

principles of chemical process and design with real-world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids, oil blends, polymers and electrolytes Presents examples that are solved using a new version of Aspen software, ASPEN One 9 Written for students and academics in the field of process design, Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software. A step-by-step guide for students (and faculty) on the use of Aspen in teaching

thermodynamics • Easily-accessible modern computational techniques opening up new vistas in teaching thermodynamics A range of applications of Aspen Plus in the prediction and calculation of thermodynamic properties and phase behavior using the state-of-the art methods • Encourages students to develop engineering insight by doing repetitive calculations with changes in parameters and/or models • Calculations and application examples in a step-by-step manner designed for out-of-classroom self-study • Makes it possible to easily integrate Aspen Plus into thermodynamics courses

without using in-class time • Stresses the application of thermodynamics to real problems Aspen Plus is one of the most popular process simulation software programs used industrially and academically. Though the software is available at many corporations and universities, there are no textbooks which are dedicated to teaching the step-by-step use of the software. This book is designed to fill that need. The structure of the book is unique in that it emulates a lecture /workshop classroom environment. Each chapter starts with the equivalent of a classroom lecture followed by workshops which provide experience in

the chapter's subject matter. The enclosed CD contains solutions, both in Aspen Plus and text formats, to examples imbedded in the text as well as to all the workshops. There are also notes at the end of each chapter designed to aid readers that have difficulty with the workshops. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. Facilitates the process of learning and later mastering Aspen Plus® with step by step examples and succinct explanations Step-by-step textbook for identifying solutions to various process engineering problems via screenshots of the Aspen Plus®

platforms in parallel with the related text Includes end-of-chapter problems and term project problems Includes online exam and quiz problems for instructors that are parametrized (i.e., adjustable) so that each student will have a standalone version Includes extra online material for students such as Aspen Plus®-related files that are used in the working tutorials throughout the entire textbook Aspen Plus is one of the most popular process simulation software programs used industrially and academically. The book is designed to enable chemical engineers to go through a step-by-step process of learning the basic ideas

underlying chemical process simulation, by studying the primary functions of the Aspen Plus software. Because of the major changes Aspen Technology has made in the user's interface in release 8.x, parts of the first edition which is based on release 7.x have become obsolete. However much of the scientific and engineering material has not changed; for example the material describing the distillation modules is completely suitable for self-study however some of the displays have changed. New chapters include Equation-Oriented Simulation, Electrolytes, and an appendix on The NIST Thermo Data

Engine as a data source. Each chapter starts with the equivalent of a classroom lecture followed by workshops which provide experience in the chapter's subject matter. The downloadable files contain solutions, both in Aspen Plus and text formats, to examples imbedded in the text as well as to all the workshops. There are also notes at the end of each chapter designed to aid readers that have difficulty with the workshops. Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. This self-learning guide shows how

to start using Aspen Plus to solve chemical engineering problems quickly and easily. Discover how to solve challenging chemical engineering problems with Aspen Plus—in just 24 hours, and with no prior experience. Developed at McMaster University over a seven-year period, the book features visual guides to using detailed mathematical models for a wide range of chemical process equipment, including heat exchangers, pumps, compressors, turbines, distillation columns, absorbers, strippers, and chemical reactors. Learn Aspen Plus in 24 Hours shows, step-by-step, how to configure and use

Aspen Plus v9.0 and apply its powerful features to the design, operation, and optimization of safe, profitable manufacturing facilities. You will learn how to build process models and accurately simulate those models without performing tedious calculations. Divided into 12 two-hour lessons, the guide offers downloadable Aspen Plus simulation files and visual step-by-step guides. • Contains a valuable index that lists software icons and commands used in the book • Features helpful and time-saving links to instructional videos and technical content • Instructs how to integrate your simulation with other

supporting software such as Aspen Capital Cost Estimator, Aspen Energy Analyzer, and Microsoft Excel • Written by an Aspen Plus power-user and leading researcher in chemical process simulations 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, MATLAB) 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. A timely treatment of distillation combining steady-state design and dynamic controllability As the world continues to seek new sources of energy, the distillation process remains one of the most important separation methods in the chemical, petroleum, and energy industries. And as new renewable sources of energy and chemical feedstocks

become more universally utilized, the issues of distillation design and control will remain vital to a future sustainable lifestyle. Distillation Design and Control Using Aspen Simulation introduces the current status and future implications of this vital technology from the dual perspectives of steady-state design and dynamics. Where traditional design texts have focused mainly on the steady-state economic aspects of distillation design, William Luyben also addresses such issues as dynamic performance in the face of disturbances. Utilizing the commercial simulators Aspen Plus and Aspen Dynamics, the text

guides future and practicing chemical engineers first in the development of optimal steady-state designs of distillation systems, and then in the development of effective control structures. Unique features of the text include: * In-depth coverage of the dynamics of column design to help develop effective control structures for distillation columns * Development of rigorous simulations of single distillation columns and sequences of columns * Coverage of design and control of petroleum fractionators Encompassing nearly four decades of research and practical developments in this dynamic field, the text

represents an important reference for both students and experienced engineers faced with distillation problems. A comprehensive and example oriented text for the study of chemical process design and simulation *Chemical Process Design and Simulation* is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software. A comprehensive and practical resource, the text uses both Aspen Plus and Aspen Hysys simulation software. The author describes the basic methodologies for computer

aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys. The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors, separators, and heat exchangers. The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used. In addition, to aid in comprehension, solutions to examples of real problems are included. The final section covers plant design and

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field of process design, Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software. Quickly start using the current version of Aspen Plus® to solve chemical engineering problems Discover how to solve chemical engineering problems with Aspen Plus® in just 24 hours, with no prior experience. Thoroughly revised for the latest distribution, this self-learning guide features detailed mathematical models for a wide range of chemical process equipment, including heat exchangers, pumps, compressors, turbines,

distillation columns, and chemical reactors. Divided into 12 two-hour lessons, Learn Aspen Plus® in 24 Hours, Second Edition shows, step by step, how to build process models and simulations without performing tedious calculations. You will also get downloadable Aspen Plus simulation files and helpful quick starter templates. Inside, you will learn how to: Get up and running with Aspen Plus Accurately model physical property Work with Aspen Plus' problem solving tools Create equilibrium- and rate-based distillation models Build chemical reactor models Incorporate connections to Microsoft Excel and Python in

your Aspen Plus models Estimate capital costs Optimize heat exchanger networks Simulate electrolyte chemistry and CO2 capture Employ parallel computing and optimization Choose property packages This fully updated guide shows how to quickly start using the current version of Aspen Plus to solve chemical engineering problems Discover how to solve challenging chemical engineering problems with Aspen Plus in just 24 hours, with no prior experience. Thoroughly revised for the latest distribution, the book features detailed mathematical models for a wide range of chemical process equipment, including heat

exchangers, pumps, compressors, turbines, distillation columns, absorbers, strippers, and chemical reactors. Learn Aspen Plus in 24 Hours, Second Edition shows, step-by-step, how to configure and use Aspen Plus version 12 and apply its powerful features to the design, operation, and optimization of safe, profitable manufacturing facilities. You will learn, step-by-step, how to build process models and accurately simulate those models without performing tedious calculations. Divided into 12 two-hour lessons, the guide offers downloadable Aspen Plus simulation files and helpful quick starter templates.

Contains 12 self-guided two-hour learning tutorials
Features helpful and time-saving links to technical help
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