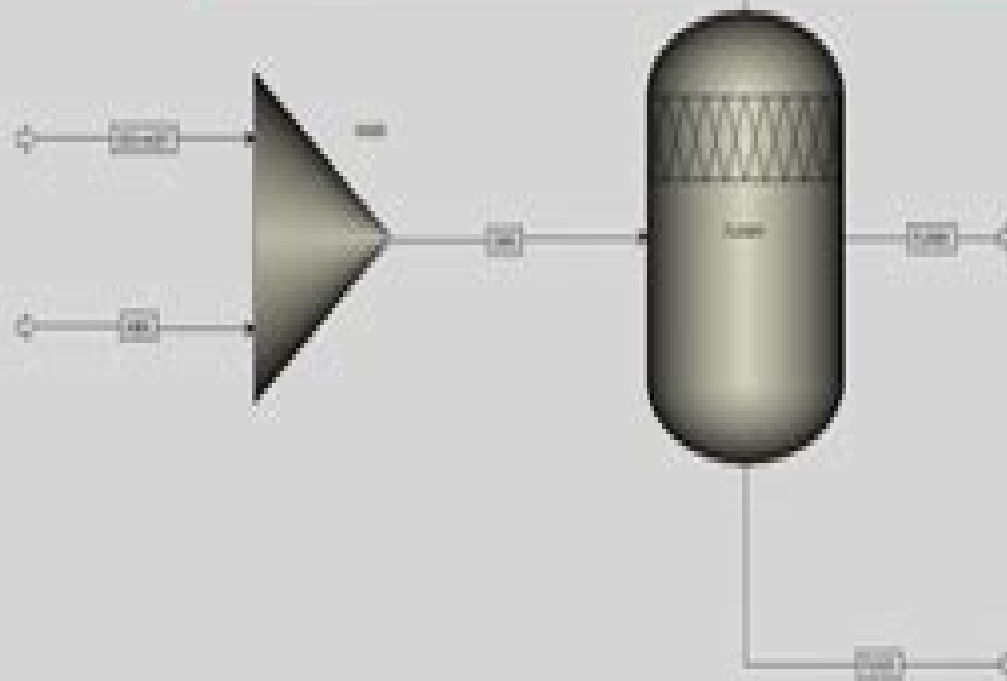


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**José María Ponce-Ortega, Rogelio
Ochoa-Barragán, César Ramírez-
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Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications Juma Haydary, 2019-01-16 A comprehensive and example 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 **Aspen Plus** Kamal I. M. Al-Malah, 2016-09-21 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 Teach Yourself the Basics of Aspen Plus Ralph Schefflan, 2011-04-12 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

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Foo,2022-09-29 Chemical Engineering Process Simulation Second Edition guides users through chemical processes and unit operations using the main simulation software used in the industrial sector The book helps predict the characteristics of a process using mathematical models and computer aided process simulation tools as well as how to model and simulate process performance before detailed process design takes place Content coverage includes steady state and dynamic simulation process design control and optimization In addition readers will learn about the simulation of natural gas biochemical wastewater treatment and batch processes Provides an updated and expanded new edition that contains 60 70% new content Guides readers through chemical processes and unit operations using the primary simulation software used in the industrial sector Covers the fundamentals of process simulation theory and advanced applications Includes case studies of various difficulty levels for practice and for applying developed skills Features step by step guides to using UniSim Design SuperPro Designer Symmetry Aspen HYSYS and Aspen Plus for process simulation novices **Introduction to Chemical Engineering** Uche P. Nnaji,2019-10-10 The field of chemical engineering is undergoing a global renaissance with new

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