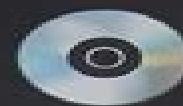


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Integrated Design and Simulation of Chemical Processes Alexandre C. Dimian, Costin Sorin Bildea, Anton A. Kiss, 2014-09-18 This comprehensive work shows how to design and develop innovative optimal and sustainable chemical processes by applying the principles of process systems engineering leading to integrated sustainable processes with green attributes Generic systematic methods are employed supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models New to the second edition are chapters on product design and batch processes with applications in specialty chemicals process intensification methods for designing compact equipment with high energetic efficiency plantwide control 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

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34th European Symposium on Computer Aided Process Engineering /15th International Symposium on Process Systems Engineering Flavio Manenti,G.V. Rex Reklaitis,2024-06-27 The 34th European Symposium on Computer Aided Process Engineering 15th International Symposium on Process Systems Engineering contains the papers presented at the 34th European Symposium on Computer Aided Process Engineering 15th International Symposium on Process Systems Engineering joint event It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 34th European Symposium on Computer Aided Process Engineering 15th International Symposium on Process Systems Engineering joint event

Fundamentals and Applications of Chemical Engineering Dr. Kirubanandan Shanmugam,2025-09-25 It s with great happiness that I would like to acknowledge a great deal of people that get helped me extremely through the entire difficult challenging but a rewarding and interesting path towards some sort of Edited Book without having their help and support none of this work could have been possible

Process Integration for Resource Conservation Dominic C.Y. Foo,2025-01-31 To achieve environmental sustainability in industrial plants resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water utility gases solvents and solid waste Process Integration for Resource Conservation presents state of the art cost effective techniques including pinch analysis and mathematical optimization for numerous conservation problems The second edition of this best seller adds new chapters on heat integration and retrofitting of resource conservation networks and features multiple optimization examples via downloadable MS Excel spreadsheets Emphasizes the goal of setting performance targets ahead of detailed design following the holistic philosophy of process integration Explains various industrial examples step by step and offers demo software and other materials online Features a wealth of industrial case studies Adds chapters on heat integration combined heat and power heat integrated water network and retrofit of resource conservation network Adds new optimization examples and downloadable MS Excel files on superstructural approaches and

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Process Systems and Materials for CO₂ Capture Athanasios I. Papadopoulos, Panos Seferlis, 2017-05-01 This comprehensive volume brings together an extensive collection of systematic computer aided tools and methods developed in recent years for CO₂ capture applications and presents a structured and organized account of works from internationally acknowledged scientists and engineers through Modeling of materials and processes based on chemical and physical principles Design of materials and processes based on systematic optimization methods Utilization of advanced control and integration methods in process and plant wide operations The tools and methods described are illustrated through case studies on materials such as solvents adsorbents and membranes and on processes such as absorption desorption pressure and vacuum swing adsorption membranes oxycombustion solid looping etc Process Systems and Materials for CO₂ Capture Modelling Design Control and Integration should become the essential introductory resource for researchers and industrial practitioners in the field of CO₂ capture technology who wish to explore developments in computer aided tools and methods In addition it aims to introduce CO₂ capture technologies to process systems engineers working in the development of general computational tools and methods by highlighting opportunities for new developments to address the needs and challenges in CO₂ capture technologies

Comprehensive Dictionary of Chemical Engineering Muhammad Rashid Usman, 2015-03-29 This book is a comprehensive collection of chemical engineering terms in a single volume It covers generally all the chemical engineering literature and has distinguished features The book is a useful reference material for the people both at the schools and the industry The author's experience of teaching and research over the years has realized a must book of this kind The terms are written in alphabetical order Where a term deserves more elaboration a rather detailed description is provided The book also contains a number of labeled diagrams which may be helpful in understanding some critical terms

Measurement of the Sustainability Performance of Chemical Manufacturing Processes Mohammad Hossein Ordouei, 2024-06-24 The present book introduces the Composite Sustainability Indicator CSI defining sustainability as meeting present needs without compromising future generations The CSI integrates the Waste Reduction Algorithm risk assessment models and energy intensity indices to evaluate environmental impacts and facilitate risk informed design Through case studies the author demonstrates the effectiveness of these methodologies aggregating them into a Key Process

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