Chemical Process Design Computer Aided Case Studies

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Chemical Process Design Computer Aided
Description. This practical how-to-do book deals with the design of sustainable chemical processes by means of systematic methods aided by computer simulation. Ample case studies illustrate generic creative issues, as well as the efficient use of simulation techniques, with each one standing for an important issue taken from practice.

Chemical Process Design: Computer-Aided Case Studies | Wiley
Chemical Process Design: Computer-Aided Case Studies. Alexandre C. Dimian, Costin Sorin Bildea. This practical how-to-do book deals with the design of sustainable chemical processes by means of systematic methods aided by computer simulation. Ample case studies illustrate generic creative issues, as well as the efficient use of simulation techniques, with each one standing for an important issue taken from practice.

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Chemical Process Design | Wiley Online Books
Computer aided process engineering (CAPE) tools have been very successfully used in process design for a long time. In particular, simulation as an analysis and validation tool and modeling have enabled engineers to analyze and understand the interplay of chemistry, thermodynamics, process synthesis, the efficient use of resources, and process dynamics prior to building the actual plant.

Chemical Process Design: Computer-Aided Case Studies ...
field of computer aided process design was characterized by efforts to simulate individual chemical processing units such as distillation columns, absorbers and flash tanks. By l%l attempts to tie together simplified models of individual process units into more comprehensive flow

COMPUTER AIDED CHEMICAL PROCESS DESIGN: THE FLOWTRAN SYSTEM*
This is a list of software used to simulate the material and energy balances of chemical process plants. Applications for this include design studies, engineering studies, design audits, debottlenecking studies, control system check-out, process simulation, dynamic simulation, operator training simulators, pipeline management systems, production management systems, digital twins.

List of chemical process simulators - Wikipedia
Logistic Optimization of Chemical Production Processes 2008 ISBN 978-3-527-30830-9 L. Puigjaner, G. Heyen (Eds.) Computer Aided Process and Product Engineering 2006 ISBN 978-3-527-30804-0 K. Sundmacher, A. Kienle, A. Seidel-Morgenstern (Eds.) Integrated Chemical Processes Synthesis, Operation, Analysis, and Control 2005 ISBN 978-3-527-30831-6 ...

Alexandre C. Dimian and
Mario Richard Eden, ... Mahmoud El-Halwagi, in Computer Aided Chemical Engineering, 2002. 2 Simultaneous Solution of Process and Molecular Design Problems. Traditionally process design and molecular design have been treated as two separate problems, with little or no feedback between the two approaches. Each problem has been conveniently isolated or decoupled from the other.

Process Design - an overview | ScienceDirect Topics
30th European Symposium on Computer Aided Chemical Engineering, Volume 47 contains the papers presented at the 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Milan, Italy, May 24-27, 2020. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia ...

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Process design, therefore, needs to integrate solvent design. For this purpose, the integrated computer-aided molecular and process design (CAMPD) method Rx-COSMO-CAMPD is proposed. It employs a hybrid optimization scheme combining a genetic algorithm to explore the molecular design space with gradient-based optimization of the process.

Rx-COSMO-CAMPD: Enhancing Reactions by Integrated Computer ...
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Computer-aided design (CAD) is the use of computers (or workstations) to aid in the creation, modification, analysis, or optimization of a design. CAD software is used to increase the productivity of the designer, improve the quality of design, improve communications through documentation, and to create a database for manufacturing.

Computer-aided design - Wikipedia
Computer-aided molecular design (CAMD), first introduced by Gani and Brignole [8], is a general term describing the procedure of rational design of molecules that possess pre-specified, desirable properties. A standard CAMD procedure consists of two steps.

Computer-aided solvent selection and design for efficient ...
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Computer Aided Chemical Engineering is a book series which publishes theme volumes and conference proceedings in the application of computing and systems technology to chemical engineering problems. Several major areas are represented in the series, including modeling, numerical analysis and simulation; mathematical programming (optimization); cyberinfrastructure, informatics and intelligent systems; process and product synthesis/design; process dynamics, control and monitoring; abnormal ...

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