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Distillation and Gas Absorption Design Rules of Thumb: For ideal mixtures, relative volatility is the ratio of vapour pressures $\lambda = p_2 / p_1$ Tower operating pressure is determined most often by the temperature of the available condensing medium, 100 $^{\circ}$ F if cooling water; or by the maximum allowable reboiler temperature, 150 psig steam, 366 $^{\circ}$ F.

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This work contains the proceedings of the Distillation and Absorption conference, which happens every 5 years. This collection of 100 contributions spanning 23 countries showcase the newest and best distillation and absorption technologies which cover a broad range of fundamental and applied aspects of the technology. To address these aspects, the contributions have been put into seven themes: modelling and simulation (steady-state, dynamic and CFD); energy efficiency and sustainability; equipment design and operation; integrated, hybrid and novel processes; process troubleshooting and handling operational problems; control and operation; and basic data.

The 17th European Symposium on Computed Aided Process Engineering contains papers presented at the 17th European Symposium of Computer Aided Process Engineering (ESCAPE 17) held in Bucharest, Romania, from 27-30 May 2007. The ESCAPE series serves as a forum for scientists and engineers from academia and industry to discuss progress achieved in the area of Computer Aided Process Engineering (CAPE). The main goal was to emphasize the continuity in research of innovative concepts and systematic design methods as well the diversity of applications emerged from the demands of sustainable development. ESCAPE 17 highlights the progress software technology needed for implementing simulation based tools. The symposium is based on 5 themes and 27 topics, following the main trends in CAPE area: Modelling, Process and Products Design, Optimisation and Optimal Control and Operation, System Biology and Biological Processes, Process Integration and Sustainable Development. Participants from 50 countries attended and invited speakers presented 5 plenary lectures tackling broad subjects and 10 keynote lectures. Satellite events added a plus to the scientific dimension to this symposium. * All contributions are included on the CD-ROM attached to the book * Attendance from 50 countries with invited speakers presenting 5 plenary lectures tackling broad subjects and 10 keynote lectures

Distillation has historically been the main method forseparating mixtures in the chemical process industry. However,despite the flexibility and widespread use of distillationprocesses, they still remain extremely energy inefficient.Increased optimization and novel distillation concepts can deliversubstantial benefits, not just in terms of significantly lowerenergy use, but also in reducing capital investment and improvingeco-efficiency. While likely to remain the separation technology ofchoice for the next few decades, there is no doubt thatdistillation technologies need to make radical changes in order tomeet the demands of the energy-conscious society. Advanced Distillation Technologies: Design, Control andApplications gives a deep and broad insight into integratedseparations using non-conventional arrangements, including bothcurrent and upcoming process intensification technologies. It includes: Key concepts in distillation technology Principles of design, control, sizing and economics ofdistillation Dividing-wall column (DWC) – design, configurations,optimal operation and energy efficient and advanced control DWC applications in ternary separations, azeotropic, extractiveand reactive distillation Heat integrated distillation column (HIDiC) – design,equipment and configurations Heat-pump assisted applications (MVR, TVR, AHP, CHR.P, TAHP andothers) Cyclic distillation technology – concepts, modelingapproach, design and control issues Reactive distillation – fundamentals, equipment,applications, feasibility scheme Results of rigorous simulations in Mathworks Matlab &Simulink, Aspen Plus, Dynamics and Custom Modeler Containing abundant examples and industrial case studies, thisis a unique resource that tackles the most advanced distillationtechnologies – all the way from the conceptual design topractical implementation. The author of Advanced Distillation Technologies, Dr. Ir. Anton A. Kitis, has been awarded the Hoogewerff Jongerenprijs2013. ahref="http://www.hoogewerff-fonds.nl/nieuws/26/hoogewerff_jongerenprijs_2013_soegekend_san_voetzijdige_processtechnoog"Findout more (website in Dutch).../a

The proposed book will be divided into three parts. The chapters in Part I provide an overview of certain aspect of process retrofitting. The focus of Part II is on computational techniques for solving process retrofit problems. Finally, Part III addresses retrofit applications from diverse process industries. Some chapters in the book are contributed by practitioners whereas others are from academia. Hence, the book includes both new developments from research and also practical considerations. Many chapters include examples with realistic data. All these feature make the book useful to industrial engineers, researchers and students.

Distillation: Operation and Applications—winner of the 2015 PROSE Award in Chemistry & Physics from the Association of American Publishers—is a single source of authoritative information on all aspects of the theory and practice of modern distillation, suitable for advanced students and professionals working in a laboratory, industrial plants, or a managerial capacity. It addresses the most important and current research on industrial distillation, including all steps in process design (feasibility study, modeling, and experimental validation), together with operation and control aspects. This volume features an extra focus on distillation applications. Winner of the 2015 PROSE Award in Chemistry & Physics from the Association of American Publishers Practical information on the newest development written by recognized experts Coverage of a huge range of laboratory and industrial distillation approaches Extensive references for each chapter facilitates further study

Design and Synthesis of Membrane Separation Processes provides a novel method of design and synthesis for membrane separation. While the main focus of the book is given to gas separation and pervaporation membranes, the theory has been developed in such a way that it is general and valid for any type of membrane. The method, which uses a graphical technique, allows one to calculate and visualize the change in composition of the retentate (non-permeate) phase. This graphical approach is based on Membrane Residue Curve Maps. One of the strengths of this approach is that it is exactly analogous to the method of Residue Curve Maps that has proved so successful in distillation system synthesis and design.

Optimization-based process design can be accomplished by the formulation of superstructures and the use of metaheuristics as well as deterministic optimization. This paper proposes a novel hybrid optimization approach, which combines an evolutionary algorithm (EA) and a sophisticated deterministic optimization strategy. In contrast to related approaches, the EA provides an initial superstructure, which results in a MINLP and is solved by a local deterministic algorithm. This combination facilitates an extensive inspection of the search space, while the sophisticated deterministic optimization leads to a reduction in the number of individuals that need to be evaluated within the evolutionary approach. The application of the novel hybrid optimization approach is illustrated by a case study, i.e., the separation of an ethanol/water mixture by means of an entrainer-enhanced pressure swing distillation process.

Computer-aided process engineering (CAPE) plays a key design and operations role in the process industries, from the molecular scale through managing complex manufacturing sites. The research interests cover a wide range of interdisciplinary problems related to the current needs of society and industry. ESCAPE 23 brings together researchers and practitioners of computer-aided process engineering interested in modeling, simulation and optimization, synthesis and design, automation and control, and education. The proceedings present and evaluate emerging as well as established research methods and concepts, as well as industrial case studies. Contributions from the international community using computer-based methods in process engineering Reviews the latest developments in process systems engineering Emphasis on industrial and societal challenges

Computer aided process engineering (CAPE) plays a key design and operations role in the process industries. This conference features presentations by CAPE specialists and addresses strategic planning, supply chain issues and the increasingly important area of sustainability audits. Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development: environmental, social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals. Contributions from the international community of researchers and engineers using computing-based methods in process engineering Review of the latest developments in process systems engineering Emphasis on a systems approach in tackling industrial and societal grand challenges

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