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Reactive Distillation
20th European Symposium of Computer Aided Process Engineering
Membrane Process Design Using Residue Curve Maps
The Chemical Engineer
Einfluss erhöhter Viskosität auf die Trennleistung von strukturierten Packungen in der Rektifikation
Chemical Synergies
27th European Symposium on Computer Aided Process Engineering
Twenty-Seventh Symposium on Biotechnology for Fuels and Chemicals

22nd European Symposium on Computer Aided Process Engineering
10th International Symposium on Process Systems Engineering - PSE2009
16th International Conference, Process Engineering and chemicalplantdesign
14th International Symposium on Process Systems Engineering
Process Intensification
Distillation: Equipment and Processes
Advanced Solar-Distillation Systems
Advanced Distillation Technologies
Distillation Absorption 2010 : Conference Proceedings,12-15 September 2010 Eindhoven, The Netherlands
Distillation And Absorption
10th International Symposium on Process Systems Engineering
Distillation and Absorption 2006
18th European Symposium on Computer Aided Process Engineering
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17th European Symposium on Computed Aided Process Engineering
Distillation, absorption 2010 : conference proceedings ; 12 - 15 September 2010, Eindhoven, The Netherlands ; [papers presented at the 9th Distillation and Absorption Conference]

SARA ERNESTO

Reactive Distillation
Academic Press

While the PSE community continues its focus on understanding, synthesizing, modeling, designing, simulating, analyzing, diagnosing, operating, controlling, managing, and optimizing a host of

chemical and related industries using the systems approach, the boundaries of PSE research have expanded considerably over the years. While early PSE research was largely concerned with individual units and plants, the current research spans wide ranges of scales in size (molecules to processing units to plants to global multinational enterprises to global supply chain networks; biological cells to ecological webs) and time (instantaneous molecular interactions to months of plant operation to years of strategic planning). The changes and challenges brought about by increasing globalization and the the common global issues of energy, sustainability, and environment provide the motivation for the theme of PSE2012: Process Systems Engineering and Decision Support for the Flat World. Each theme includes an invited chapter based on the plenary presentation by an eminent academic or industrial researcher Reports on the state-of-the-art advances in the various fields of process systems engineering Addresses common global problems and the research being done to solve them

20th European Symposium of Computer Aided Process Engineering

Walter de Gruyter GmbH & Co KG

Die vorliegende Arbeit beschaftigt sich vor dem Hintergrund der

Reduktion von Treibhausgasemissionen zur Minderung des Klimawandels mit der Abtrennung von CO2 aus Kraftwerksprozessen zur Stromerzeugung. Nach einer Ubersicht uber verschiedene technologische Ansatze wird im Detail auf den Prozess der Reaktivabsorption eingegangen. Hierfur werden zunachst die wesentlichen physikalisch-chemischen Grundlagen erlautert. Anhand von experimentellen Studien an einer Technikumsanlage werden wichtige Zusammenhange zwischen Prozessgrossen abgeleitet, deren Verstandnis fur eine Prozessoptimierung wesentlich ist. Zur weiteren Reduktion des Energiebedarfs des Absorptions-Desorptions-Prozesses ist der Einsatz von neuen Losungsmitteln ein wesentlicher Schritt. Um deren Verbesserungspotenzial zu beurteilen, werden in dieser Arbeit geeignete Methoden vorgestellt und angewendet.

Membrane Process Design Using Residue Curve Maps Elsevier Inc. Chapters

The 10th International Symposium on Process Systems Engineering, PSE'09, will be held in Salvador-Bahia, Brazil on August 16-20, 2009. The special focus of PSE 2009 is Sustainability, Energy and Engineering. PSE 2009 is the tenth in the triennial series of international symposia on process systems

engineering initiated in 1982. The meeting is brings together the worldwide PSE community of researchers and practitioners who are involved in the creation and application of computing-based methodologies for planning, design, operation, control and maintenance of chemical and petrochemical process industries. PSE'09 will look at how the PSE methods and tools can support sustainable resource systems and emerging technologies in the areas of green engineering: environmentally conscious design of industrial processes. PSE methods and tools support: - sustainable resource systems - emerging technologies in the areas of green engineering - environmentally conscious design of industrial processes

The Chemical Engineer Academic Press

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 Einfluss erhöhter Viskosität auf die Trennleistung von strukturierten Packungen in der Rektifikation Elsevier 27th European Symposium on Computer Aided Process Engineering, Volume 40 contains the papers presented at the 27th European Society of Computer-Aided Process Engineering (ESCAPE) event held in Barcelona, October 1-5, 2017. 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 27th European Society of Computer-Aided Process Engineering (ESCAPE) event

Chemical Synergies Elsevier 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

27th European Symposium on Computer Aided Process Engineering Springer

The 31st European Symposium on Computer Aided Process Engineering: ESCAPE-31, Volume 50 contains the papers presented at the 31st European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Istanbul, Turkey. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students and consultants in the

chemical industries. Presents findings and discussions from the 31st European Symposium of Computer Aided Process Engineering (ESCAPE) event

Twenty-Seventh Symposium on Biotechnology for Fuels and Chemicals

Elsevier

14th International Symposium on Process Systems Engineering, Volume 49 brings together the international community of researchers and engineers interested in computing-based methods in process engineering. The conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 2021 event held in Tokyo, Japan, July 1-23, 2021. It contains contributions from academia and industry, establishing the core products of PSE, defining the new and changing scope of our results, and covering future challenges. Plenary and keynote lectures discuss real-world challenges (globalization, energy, environment and health) and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE. Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes the core products of Process Systems Engineering Defines the future

challenges of Process Systems Engineering *22nd European Symposium on Computer Aided Process Engineering* Elsevier
Process intensifi cation aims for increasing effi ciency and sustainability of (bio-)chemical production processes. This book presents strategies for the intensifi cation of fluid separation processes such as reactive distillation, reactive absorption and membrane assisted separations. The authors discuss theoretical fundamentals, model development, methods for synthesis and the design as well as scale-up and industrial process applications.
10th International Symposium on Process Systems Engineering - PSE2009 Elsevier
This book contains the proceedings of the 10e of a series of international symposia on process systems engineering (PSE) initiated in 1982. The special focus of PSE09 is how PSE methods can support sustainable resource systems and emerging technologies in the areas of green engineering. * Contains fully searchable CD of all printed contributions * Focus on sustainable green engineering * 9 Plenary papers, 21 Keynote lectures by leading experts in the field
16th International Conference, Process Engineering and chemicalplantdesign John Wiley & Sons
This multi-disciplinary book presents the most recent advances in

exergy, energy, and environmental issues. Volume 1 focuses on fundamentals in the field and covers current problems, future needs, and prospects in the area of energy and environment from researchers worldwide. Based on selected lectures from the Seventh International Exergy, Energy and Environmental Symposium (IEEES7-2015) and complemented by further invited contributions, this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in "energetic efficiency". Included are fundamental and historical coverage of the green transportation and sustainable mobility sectors, especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles. Furthermore, contributions on renewable and sustainable energy sources, strategies for energy production, and the carbon-free society constitute an important part of this book. Exergy for Better Environment and Sustainability, Volume 1 will appeal to researchers, students, and professionals within engineering and the renewable energy fields.

14th International Symposium on Process Systems Engineering

IChemE

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, CHRP, 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. Kiss, has been awarded the Hoogewerff Jongerenprijs2013. ahref="http://www.hoogewerff-fonds.nl/nieuws/26/hoogewerff_jongerenprijs_2013_toegekend_aan_veelzijdige_procestechnoloog"Findout more (website in Dutch).../a

Process Intensification
Elsevier
Die Rektifikation ist die vielleicht wichtigste Methode zur Trennung von Gemischen in der Prozessindustrie. Die Auslegung einer Kolonne erfordert die Kenntnis ihrer Trennleistung. Diese ist aber nicht nur von den verwendeten Einbauten abhängig, sondern auch von den

Stoffeigenschaften des Gemisches. Eine erhöhte Viskosität der Flüssigkeit ist hierbei ein sehr wichtiger Faktor, weil sie die Kapazität eines Apparates verringern und zu einer schlechteren Stofftrennung führen kann. Bisher fehlten aber Daten zur optimalen Auslegung bezüglich Investition und Energiekosten. Daher wurde in dieser Arbeit die Trennleistung von zwei strukturierten Packungen systematisch für Testgemische mit hoher und niedriger Viskosität gemessen. Die Trennleistung nahm dabei um bis zu 33% ab. Versuche bei mehreren Drücken und Gasbelastungen erlauben eine bessere Beurteilung aller Einflussfaktoren. Für ein vertieftes Verständnis der Zusammenhänge und Auswirkungen sorgt auch die Messung des Hold-up und der Verweilzeit der Flüssigkeit. Abschließend zeigt die Untersuchung von drei Stofftransportmodellen Stärken und Schwächen der Modelle bei der Vorausberechnung der Trennleistung.

Distillation: Equipment and Processes McGraw Hill Professional

In a reactive distillation column, both the chemical conversion and the distillative separation of the product mixture are carried out simultaneously. Through this integrative strategy, chemical equilibrium limitations can be

overcome, higher selectivities can be achieved and heat of reaction can be directly used for distillation. Increased process efficiency and reduction of investments and operational costs are the direct results of this approach. Highly renowned international experts from both industry and academia review the state-of-the-art and the future directions in application, design, analysis and control of Reactive Distillation processes. Part I surveys various industrial applications and covers both established large scale processes as well as new chemical reaction schemes with high future potential. Part II provides the vital details for analysis of reactive phase equilibria, and discusses the importance of chemical reaction kinetics, while Part III focuses on identifying feasible column configurations and designing their internal structure. Analysis and control of the complex dynamic and steady-state behavior of reactive distillation processes are described in Part IV. Reactive Distillation - a very promising alternative to conventional reaction-distillation flow schemes.

Advanced Solar-Distillation Systems

John Wiley & Sons

Contains the papers presented at a symposium which aimed to address and record changes in distillation and absorption and to

discuss new directions. Topics covered include: column sequencing; equipment; batch distillation; azeotropic and extractive distillation; packed columns and more.

Advanced Distillation Technologies

Univerlagtuberlin Plenary Lectures. Topic 1 -- Off-Line Systems. Topic 2 -- On-Line Systems. Topic 3 -- Computational & Numerical Solutions Strategies. Topic 4 -- Integrated And Multiscale Modelling And Simulation. Topic 5 -- Cape For The Users!. Topic 6 -- Cape And Society. Topic 7 -- Cape In Education.

Distillation Absorption 2010 : Conference Proceedings,12-15 September 2010 Eindhoven, The Netherlands Logos Verlag Berlin GmbH

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

Distillation And Absorption Elsevier Up-to-Date Coverage of All Chemical Engineering Topics—from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition, this industry-standard resource has equipped generations of engineers and chemists with vital information, data, and insights. Thoroughly revised to reflect the latest technological advances and processes, Perry's Chemical Engineers' Handbook, Ninth Edition, provides unsurpassed coverage of every aspect of chemical engineering. You will get comprehensive details on chemical processes, reactor modeling, biological processes, biochemical and membrane separation, process and chemical plant safety, and much more. This fully updated edition covers: Unit Conversion Factors and Symbols • Physical and Chemical Data including Prediction and Correlation of Physical Properties • Mathematics including Differential and Integral Calculus, Statistics , Optimization • Thermodynamics •

Heat and Mass Transfer • Fluid and Particle Dynamics *Reaction Kinetics • Process Control and Instrumentation• Process Economics • Transport and Storage of Fluids • Heat Transfer Operations and Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment •Chemical Reactors • Bio-based Reactions and Processing • Waste Management including Air ,Wastewater and Solid Waste Management* Process Safety including Inherently Safer Design • Energy Resources, Conversion and Utilization* Materials of Construction

10th International Symposium on Process Systems Engineering Elsevier

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.

Distillation and Absorption 2006 CRC Press

This book gives an overview of recent integrated and inter-disciplinary approaches between chemical experiment and theory in a variety of fields, from polymer science to materials chemistry and ranging from the design of tailored properties to catalysis and reactivity, building on the well-established success of Density Functional Theory as the foremost quantum chemical method to provide qualitative and quantitative interpretation of results from the chemical laboratory. The combination of several characterization techniques with an understanding at the molecular level of chemical and physical phenomena are the main focal point of the subject matter.

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