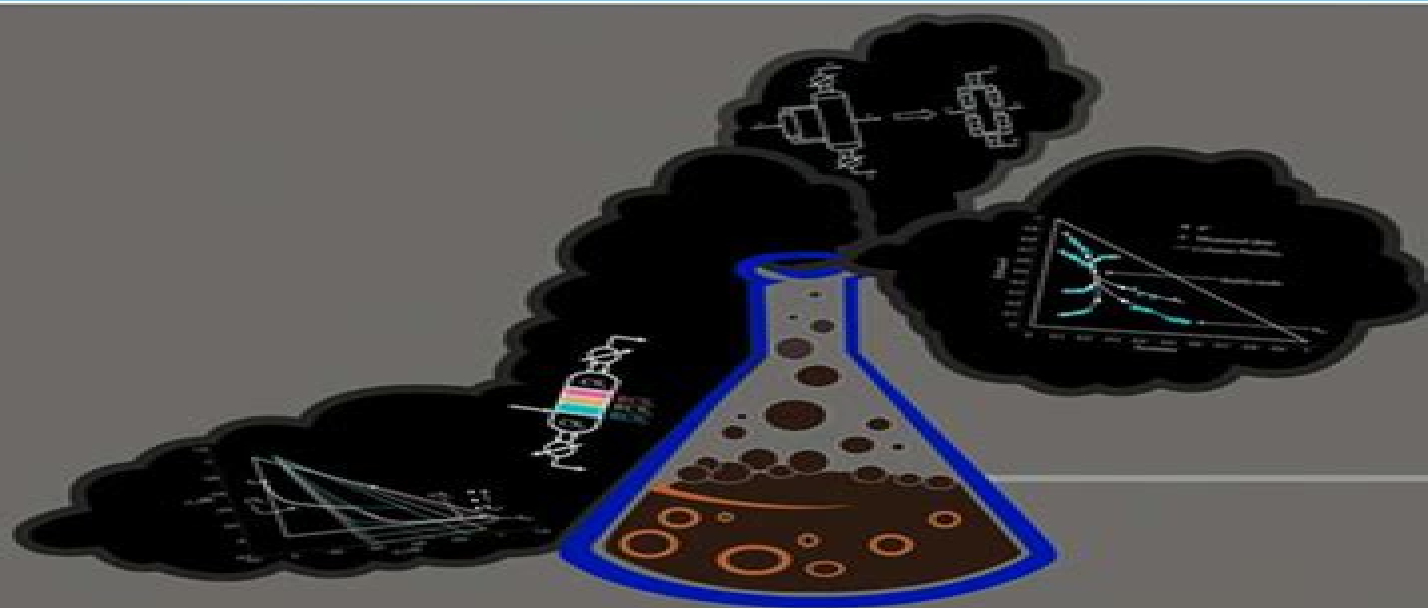


Understanding Distillation Using Column Profile Maps

*Daniel Beneke, Mark Peters,
David Glasser, and Diane Hildebrandt*



Understanding Distillation Using Column Profile Maps

Eva Sørensen

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Understanding Distillation Using Column Profile Maps:

Understanding Distillation Using Column Profile Maps Daniel Beneke, Mark Peters, David Glasser, Diane Hildebrandt, 2012-12-10 Researchers share their pioneering graphical method for designing almost any distillation structure Developed by the authors in collaboration with other researchers at the Centre of Material and Process Synthesis column profile maps CPMs enable chemical engineers to design almost any distillation structure using novel graphical techniques The CPM method offers tremendous advantages over other design methods because it is generalized and not constrained to a particular piece of equipment Understanding Distillation Using Column Profile Maps enables readers to understand analyze and design distillation structures to solve common distillation problems including distillation by simple columns side rectifiers and strippers multiple feed columns and fully thermally coupled columns In addition the book presents advanced topics such as reactive distillation membrane permeation and validation of thermodynamic models For all these processes the authors set forth easy to follow design techniques solution strategies and insights gained using CPMs This book offers everything needed to fully understand and use CPMs as a design tool Figures help readers understand how to use CPMs as design and optimization tools Examples clearly illustrate how to solve specific problems using CPMs Tutorials allow readers to explore key concepts through experimentation Design and Optimization of Distillation Systems software package developed for this book enables readers to reproduce the examples in the book follow the tutorials and begin designing their own distillation systems With its many examples and step by step tutorials Understanding Distillation Using Column Profile Maps is recommended for students in chemical engineering in advanced undergraduate and graduate courses The book also provides new practical techniques that can be immediately applied by chemical engineering professionals in industry

Understanding Distillation Using Column Profile Maps Daniel Beneke, Mark Peters, David Glasser, Diane Hildebrandt, 2012-11-08 Researchers share their pioneering graphical method for designing almost any distillation structure Developed by the authors in collaboration with other researchers at the Centre of Material and Process Synthesis column profile maps CPMs enable chemical engineers to design almost any distillation structure using novel graphical techniques The CPM method offers tremendous advantages over other design methods because it is generalized and not constrained to a particular piece of equipment Understanding Distillation Using Column Profile Maps enables readers to understand analyze and design distillation structures to solve common distillation problems including distillation by simple columns side rectifiers and strippers multiple feed columns and fully thermally coupled columns In addition the book presents advanced topics such as reactive distillation membrane permeation and validation of thermodynamic models For all these processes the authors set forth easy to follow design techniques solution strategies and insights gained using CPMs This book offers everything needed to fully understand and use CPMs as a design tool Figures help readers understand how to use CPMs as design and optimization tools Examples clearly illustrate how to solve specific problems using CPMs Tutorials allow readers

to explore key concepts through experimentation Design and Optimization of Distillation Systems software package developed for this book enables readers to reproduce the examples in the book follow the tutorials and begin designing their own distillation systems With its many examples and step by step tutorials Understanding Distillation Using Column Profile Maps is recommended for students in chemical engineering in advanced undergraduate and graduate courses The book also provides new practical techniques that can be immediately applied by chemical engineering professionals in industry

Process Systems Engineering 2003 Bingzhen Chen, Art Westerberg, 2003-06-06 Contains proceedings from the 8th International Symposium on Process Systems Engineering PSE which brought together the global community of process systems engineering researchers and practitioners involved in the creation and application of computing based methodologies for planning design operation control and maintenance of chemical processes Contains proceeding from the 8th International Symposium on Process Systems Engineering Conference theme for PSE 2003 is supporting business decision making

Advances in Distillation Retrofit Nguyen Van Duc Long, Moonyong Lee, 2017-09-18 This book describes the current state of the art in the retrofit of existing distillation processes using advanced distillation techniques Highlighting concept and practical application rather than theory it emphasizes the use of advanced process integration and intensification techniques such as multi effect distillation heat pump assisted distillation thermally coupled distillation dividing wall column reactive distillation and innovative hybrid systems As a thermal separation method distillation is one of the most important and widely used technologies in the chemical process industry While it has many advantages one major drawback is its large energy requirement which can significantly influence overall plant profitability The increasing cost of energy has forced industry to reduce its energy requirement but simultaneously there has been a need to increase capacity and output due to heightened demand To accomplish this the retrofit of distillation processes to increase efficiency and output has become a crucial issue This book describes the use of advanced process integration and process intensification techniques to carry out effective distillation retrofit Written by leading researchers in distillation process process integration process intensification and process retrofit the book presents a comprehensive review of contemporary advanced distillation techniques which can be employed in grass root systems and retrofit It is a valuable source of information for undergraduate and postgraduate students of chemical engineering practicing process designers and chemical engineers

Handbook for Chemical Process Industries Himanshu J Patel, 2023-10-06 Chemical processing industry plays a pivotal role in the economy of a country as chemicals are required in every sphere of our lives This book covers chemical processing of dyes pigments drugs and pharmaceutical products fermented products agrochemicals explosives polymers Period II and III chemicals chemicals sugar coatings starches soaps and detergents paper pulp glass and cement It includes sources of natural materials collection process purification and extraction of different chemicals from natural materials like petroleum coal and ores from the Earth It includes manufacturing details of C1 to C4 and aromatic compounds obtained from natural materials The book

covers both traditional and modern sectors of the chemical processing industry It provides knowledge on the properties of the chemical and manufacturing process such as raw materials chemical reactions quantitative requirement flow sheet diagram procedure and its uses The book is based on the author s expertise and has been developed with an awareness of the quantitative requirement for manufacturing chemicals Data has been collected from industry thus it will be useful to industry personnel research groups academicians and institutional organizations Biofuels and Biorefining Claudia Gutierrez-Antonio, Fernando Israel Gomez Castro, 2022-05-27 Biofuels and Biorefining Volume Two Intensified Processes and Biorefineries considers intensification and optimization processes for biofuels and biomass derived products in single and biorefinery schemes Chapters cover production processes for liquid biofuels introducing all feasible intensification alternatives for each process process intensification methods for the production of value added products the importance of detailed CFD based studies controllability studies strategies for risk analysis in intensified processes the concept of biorefinery for the co production of biofuels biomass derived value added products and the importance of process intensification in the biorefinery scheme Final chapters discuss how to ensure the sustainability of the intensified process and minimize the societal impact of biorefineries through various strategies including supply chain optimization and lifecycle analysis Each chapter is supported by industry case studies that address key aspects and impacts of intensification and optimization processes Integrates basic concepts of process intensification and its application to the production of biofuels in a single resource Includes case studies related to modeling safety control supply chain lifecycle analysis and the CFD of biofuel production processes Provides a sustainability assessment of biorefinery systems from a lifecycle perspective

Distillation and Absorption 2006 Eva Sørensen, 2006 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 **Membrane Process Design Using Residue Curve Maps** Mark Peters, David Glasser, Diane Hildebrandt, Shehzaad Kauchali, 2011-04-20 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 **European**

Symposium on Computer Aided Process Engineering - 12 J. Grievink, J. van Schijndel, 2002-04-29 This book contains 182 papers presented at the 12th Symposium of Computer Aided Process Engineering ESCAPE 12 held in The Hague The Netherlands May 26 29 2002 The objective of ESCAPE 12 is to highlight advances made in the development and use of computing methodologies and information technology in the area of Computer Aided Process Engineering and Process Systems Engineering The Symposium addressed six themes 1 Integrated Product 2 Process Synthesis 3 Process Dynamics 4 Manufacturing 5 Computational Technologies 6 Sustainable CAPE Education and Careers for Chemical Engineers These themes cover the traditional core activities of CAPE and also some wider conceptual perspectives such as the increasing interplay between product and process design arising from the often complex internal structures of modern products the integration of production chains creating the network structure of the process industry and optimization over life span dimensions taking sustainability as the ultimate driver European Symposium on Computer Aided Process Engineering - 14 Ana Paula Barbosa-Póvoa, Henrique Matos, 2004-05-14 This book contains papers presented at the 14th European Symposium on Computer Aided Process Engineering ESCAPE 14 The ESCAPE symposia bring together scientists students and engineers from academia and industry who are active in the research and application of Computer Aided Process Engineering The objective of ESCAPE 14 is to highlight the use of computers and information technology tools on five specific themes 1 Product and Process Design 2 Synthesis and Process Integration 3 Process Control and Analysis 4 Manufacturing Process Operations 5 New Challenges in CAPE Provides this year's comprehensive overview of the current state of affairs in the CAPE community Contains reports from the frontiers of science by the field's most respected scientists Special Keynote by Professor Roger Sargent Long Term Achievement CAPE Award winner *27th European Symposium on Computer Aided Process Engineering*, 2017-09-21 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 **Advanced Distillation Technologies** Anton A. Kiss, 2013-02-26 Distillation has historically been the main method for separating mixtures in the chemical process industry However despite the flexibility and widespread use of distillation processes they still remain extremely energy inefficient Increased optimization and novel distillation concepts can deliver substantial benefits not just in terms of significantly lower energy use but also in reducing capital investment and improving eco efficiency While likely to remain the separation technology of choice for the next few decades there is no doubt that distillation technologies need to make radical changes in order to meet the demands of the energy conscious society *Advanced Distillation Technologies Design Control and Applications* gives a deep and broad insight into integrated separations using non conventional

arrangements including both current and upcoming process intensification technologies It includes Key concepts in distillation technology Principles of design control sizing and economics of distillation Dividing wall column DWC design configurations optimal operation and energy efficient and advanced control DWC applications in ternary separations azeotropic extractive and reactive distillation Heat integrated distillation column HIDIc design equipment and configurations Heat pump assisted applications MVR TVR AHP CHRP TAHP and others Cyclic distillation technology concepts modeling approach 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 this is a unique resource that tackles the most advanced distillation technologies all the way from the conceptual design to practical implementation The author of Advanced Distillation Technologies Dr Ir Anton A Kiss has been awarded the Hoogewerff Jongerenprijs 2013 Find out more website in Dutch *Design for Energy and the Environment* MAHMOUD M EL-HALWAGI, Andreas A. Linninger, 2009-06-05 An examination of systematic techniques for the design of sustainable processes and products this book covers reducing energy consumption preventing pollution developing new pathways for biofuels and producing environmentally friendly and high quality products It discusses innovative design approaches and technological pathways that impact ene Bioprocesses in Food Industry Ray Underwood, 2018-10-08 Bioprocessing has been used for a long time in the production of food In fact as early as 3 500 B C Sumerian brewers were using bioprocessing to create a popular beverage many drinkers still enjoy today Bioprocessing as the name suggests uses living organisms and their components in the creation of new products Bioprocessing is often used to manufacture pharmaceuticals sustainable materials alternative fuels and even many of the foods we enjoy Biotechnology as applied to food processing in most developing countries makes use of microbial inoculants to enhance properties such as the taste aroma shelf life texture and nutritional value of foods The process whereby micro organisms and their enzymes bring about these desirable changes in food materials is known as fermentation Fermentation processing is also widely applied in the production of microbial cultures enzymes flavours fragrances food additives and a range of other high value added products These high value products are increasingly produced in more technologically advanced developing countries for use in their food and non food processing applications Many of these high value products are also imported by developing countries for use in their food processing applications Food food biocatalysts and bioprocessing industries face great challenges in order to develop and establish systems to develop high quality safety foods as well as feeds and other industrial goods environmentally acceptable and in a sustainable way The text is supported by numerous clear informative diagrams The book would be highly useful to the postgraduate students and researchers of applied biology biotechnology microbiology and biochemical engineering **European Symposium on Computer Aided Process Engineering - 13** Andrzej Kraslawski, Ilkka Turunen, 2003-05-07 This book contains papers presented at the 13th European Symposium on Computer

Aided Process Engineering ESCAPE 13 The ESCAPE symposia bring together scientists students and engineers from academia and industry who are active in the research and application of Computer Aided Process Engineering The objective of ESCAPE 13 is to promote CAPE applications into new businesses and technologies by highlighting the use of computers and information technology tools in five specific areas process design process control and dynamics modeling simulation and optimization applications in pulp and paper industry and applications in biotechnology Includes 190 papers selected from 391 submitted abstracts All papers have been reviewed by 33 members of the international scientific community *10th International Symposium on Process Systems Engineering - PSE2009* Rita Maria de Brito Alves, Claudio Augusto Oller do Nascimento, Evaristo Chalbaud Biscaia, 2009-08-05 This book contains the proceedings of the 10th 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 **10th International Symposium on Process Systems Engineering** Rita Maria de Brito Alves, Cláudio Augusto Oller do Nascimento, Evaristo Chalbaud Biscaia (Jr), 2009 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 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 **26th European Symposium on Computer Aided Process Engineering**, 2016-06-17 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer Aided Process Engineering ESCAPE Event held at Portoro Slovenia from June 12th to June 15th 2016 Themes discussed at the conference include Process product Synthesis Design and Integration Modelling Numerical analysis Simulation and Optimization Process Operations and Control and Education in CAPE PSE Presents findings and discussions from the 26th European Society of Computer Aided Process Engineering ESCAPE Event 11th International Symposium on Process Systems Engineering - PSE2012, 2012-12-31 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

Process Design Tools for the Environment Subhas Sikdar, 2001-05-07 Much of the pollution in the air water or soil results from discharges from industrial activities Industrial practice can be significantly altered to reduce or eliminate the pollution if processes and products are so designed that either toxic materials are not used or processes are inherently less polluting This book is a collection of methods written by experts that would enable industry to design benign processes at the outset to achieve this purpose

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