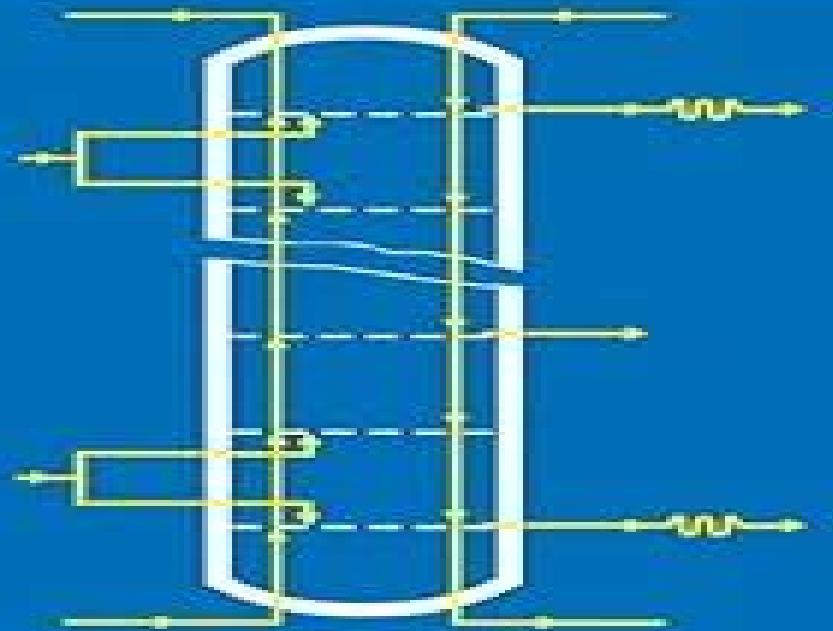


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Principles and Design



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Thermal Separation Technology Alfons Mersmann,Matthias Kind,Johann Stichlmair,2011-07-28 Thermal Separation Technology is a key discipline for many industries and lays the engineering foundations for the sustainable and economic production of high quality materials This book provides fundamental knowledge on this field and may be used both in university teaching and in industrial research and development Furthermore it is intended to support professional engineers in their daily efforts to improve plant efficiency and reliability Previous German editions of this book have gained widespread recognition This first English edition will now make its content available to the international community of students and professionals In the first chapters of the book the fundamentals of thermodynamics heat and mass transfer and multiphase flow are addressed Further chapters examine in depth the different unit operations distillation and absorption extraction evaporation and condensation crystallization adsorption and chromatography and drying while the closing chapter provides valuable guidelines for a conceptual process development

Industrial Separation Processes André B. de Haan,H. Burak Eral,Boelo Schuur,2020-07-06 Separation processes on an industrial scale account for well over half of the capital and operating costs in the chemical industry Knowledge of these processes is key for every student of chemical or process engineering This book is ideally suited to university teaching thanks to its wealth of exercises and solutions The second edition boasts an even greater number of applied examples and case studies as well as references for further reading

Reactive and Membrane-Assisted Separations Philip Lutze,Andrzej Góral,2016-07-28 Process intensification aims for increasing efficiency and sustainability of bio chemical production processes This book presents strategies for improving fluid separation such as reactive distillation reactive absorption and membrane assisted separations The authors discuss computer simulation model development methodological approaches for synthesis and the design and scale up of final industrial processes

Process Intensification Mirko Skiborowski,Andrzej

Górak,2022-06-06 Process intensification aims for increasing efficiency and sustainability of biochemical production processes. This book presents strategies for the intensification 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.

Azeotropic Data Jürgen Gmehling, 1994-07-13 Separation processes are a multi billion dollar business. In the United States alone there are more than 40 000 distillation columns which require approximately 70 % of the total US energy consumption for operation. Azeotropic data and zeotropic information are essential for the optimal design and synthesis of distillation processes. The book highlights the best way to separate azeotropic systems using hybrid or specialized distillation processes such as pressure swing azeotropic or extractive distillation. This extensive two volume compilation covers nearly all data currently available for binary and higher systems. This knowledge is the key for the successful separation of these azeotropic systems. The reader will be inspired by the sheer volume of data for more than 18800 systems involving approximately 1700 compounds. These data are carefully evaluated, documented and arranged according to molecular formula for easy access. The best thermal separation conditions for industry and environmental protection can be achieved through this practical source. In addition to chemical engineers and physical chemists, scientists active in process engineering and environmental protection will find themselves fully equipped to deal with any separation task.

The Chemical Engineer, 2006 *Separation Process Engineering* Phillip C. Wankat, 2012 The Definitive Fully Updated Guide to Separation Process Engineering. Now with a Thorough Introduction to Mass Transfer Analysis. Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer. Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data including up to date simulation practice and new spreadsheet based exercises. Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation, exact calculations and shortcut methods for multicomponent distillation, staged and packed column design, absorption, stripping and more. In this edition he also presents the latest design methods for liquid-liquid extraction. This edition contains the most detailed coverage available of membrane separations and of sorption separations, adsorption chromatography and ion exchange. Updated with new techniques and references throughout. Separation Process Engineering Third Edition also contains more than 300 new homework problems, each tested in the author's Purdue University classes. Coverage includes Modular, up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator. Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell-Stefan approaches. Detailed discussions of liquid-liquid extraction including McCabe-Thiele triangle and computer simulation analyses, mixer-settler design, Karr columns and related mass transfer analyses. Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas. Complete coverage of

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Kumar,H. Kitano,C.B. Suttner,1995 With the increasing availability of parallel machines and the raising of interest in large scale and real world applications research on parallel processing for Artificial Intelligence AI is gaining greater importance in the computer science environment Many applications have been implemented and delivered but the field is still considered to be in its infancy This book assembles diverse aspects of research in the area providing an overview of the current state of technology It also aims to promote further growth across the discipline Contributions have been grouped according to their subject architectures 3 papers languages 4 papers general algorithms 6 papers and applications 5 papers The internationally sourced papers range from purely theoretical work simulation studies algorithm and architecture proposals to implemented systems and their experimental evaluation Since the book is a second volume in the parallel processing for AI series it provides a continued documentation of the research and advances made in the field The editors hope that it will inspire readers to investigate the possibilities for enhancing AI systems by parallel processing and to make new discoveries of their own

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The Cumulative Book Index, 1996 A world list of books in the English language *The British*

National Bibliography Arthur James Wells, 1995 **McGraw-Hill Encyclopedia of Science & Technology** Sybil P. Parker, 1997 A comprehensive 20 volume reference encyclopedia on science and technology

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