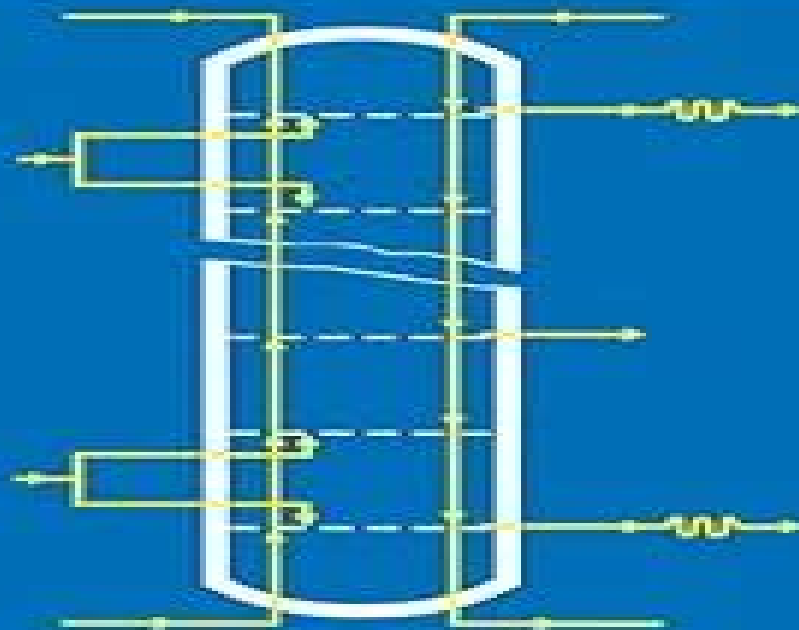


Klaus Sattler, Hans Jacob Feindt

# Thermal Separation Processes

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 Górak,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 and 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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## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Thermal Separation Processes Principles And Design**

In a global inundated with screens and the cacophony of instant connection, the profound energy and emotional resonance of verbal art frequently disappear in to obscurity, eclipsed by the constant assault of sound and distractions. However, set within the musical pages of **Thermal Separation Processes Principles And Design**, a interesting perform of literary elegance that pulses with natural feelings, lies an wonderful trip waiting to be embarked upon. Published with a virtuoso wordsmith, this enchanting opus guides readers on a psychological odyssey, softly revealing the latent potential and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is central themes, dissect their charming writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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