

Thermal Separation Technology: Principles, Methods, Process Design (VDI-Buch)

By Alfons Mersmann, Matthias Kind, Johann Stichlmair

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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.

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“This book claims to cover ‘fundamental knowledge’ in the area of separation technology. … readers who already have the fundamental knowledge and seek additional, more specific information in this area will find the book to be quite valuable. … it would be useful for professionals or researchers and faculty. Summing Up: Recommended. Upper-division undergraduates and above.” (H. Giesche, Choice, Vol. 49 (7), March, 2012)

From the Back Cover

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About the Author

Prof. Dr.-Ing. Alfons Mersmann is a Professor of Process Engineering and has taught at the Technical University Munich. His research interests are multiphase flow and process engineering at solid interfaces.

Prof. Dr.-Ing. Matthias Kind is a Professor of Thermal Process Engineering and teaches at the Karlsruhe Institute of Technology (KIT). His research interests include heat and mass transfer and product engineering by crystallization and drying.

Prof. Dr.-Ing. Johann Stichlmair is a Professor of Fluid Process Engineering who until recently taught at the Technical University Munich. His research interests are process synthesis and apparatus design in thermal process engineering.

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