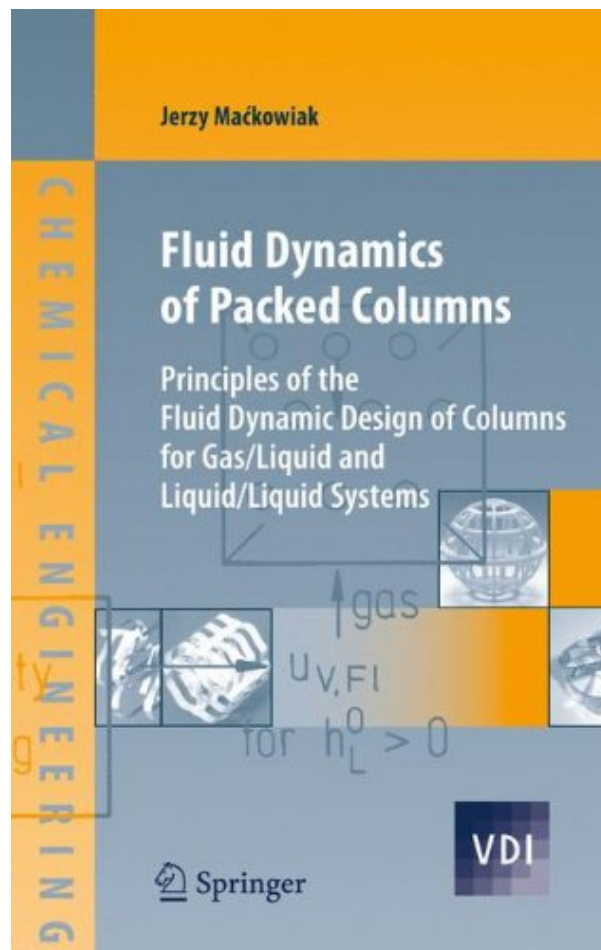


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Jerzy Maćkowiak

Fluid Dynamics of Packed Columns

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This book provides support to engineers as well as graduate students in their daily design work within the industry or for the development of new plants. It investigates the key issues relating to the fluid dynamic design of packed columns used in rectification, absorption and stripping (desorption) under vacuum, normal pressure and up to 100 bar and liquid-liquid-extraction, which are relevant in waste air and wastewater technology. The author presents a standardised model, which is valid for any type of packing and can be used to calculate the gas velocity at flooding point as well as the liquid hold-up and the pressure drop throughout the entire operating range for random packings, stacked packings elements, tube columns and structured packings with different flow channel angles. The book also contains packing parameter data for approx. 200 random and structured packings. In addition to outlining the fundamental principles of fluid dynamics, it presents numerous examples of practical application.

About the Author

Dr.-Ing. habil. Jerzy Mackowiak studied at Wroclaw University of Technology (Poland) where he gained his degree (Dipl.-Ing., 1970) and doctorate (Dr.-Ing., 1975) in Chemical Engineering. He subsequently studied Mathematics at Wroclaw University. From 1976 to 1989, he worked at the Institute for Thermal Separation Processes of Bochum University, where his final post was as Academic Director. During this time, he created a database containing fluid dynamics and mass transfer data for the design of packed and tray columns. Since 1989, he has been Managing Director of Envicon Engineering GmbH, now Envimac Engineering GmbH, in Oberhausen, Germany and Envimac Polska Sp. z o.o., Poland. He completed his habilitation at Wroclaw University in 1991. Since 2004 he has been working as an external lecturer at the Institute of Fluid Separation Processes of the Technical University in Dortmund. He is the author/co-author of more than 120 publications and holds 15 patents.

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The first German edition of the book "Fluid dynamics of packed columns with modern random and structured packings for gas/liquid systems" was published in 1991. It sold out within a few years. Added to this were numerous enquiries, in particular within the industry, prompting me to publish a second, extended edition. A packed column remains the core element of any diffusional separation process. This underlines the need for basic design principles for packed columns, which enhance the design process by making it more accurate and reliable. The SBD (suspended bed of droplets) model introduced in the first German edition of the book was well received by the experts and is now used by a large number of companies in the industry, as it offers improved reliability in the fluid dynamic design of packed columns. For the purpose of facilitating the design process, the SBD model was integrated into the simulation programme ChemCAD. The software programme FDPACK, which is available for Windows, has certainly contributed to the widespread use of the SBD model. The programme is very user-friendly and the calculation results are presented in tabular as well as graphic form, showing food load, pressure drop and hold-up diagrams in the entire operating range.

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- 355 pages

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