



Industrial Crystallization: Fundamentals and Applications

By A.E. Lewis, Marcelo Seckler, Herman Kramer, Gerda van Rosmalen

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Bridging the gap between theory and practice, this text provides the reader with a comprehensive overview of industrial crystallization. Newcomers will learn all of the most important topics in industrial crystallization, from key concepts and basic theory to industrial practices. Topics covered include the characterization of a crystalline product and the basic process design for crystallization, as well as batch crystallization, measurement techniques, and details on precipitation, melt crystallization and polymorphism. Each chapter begins with an introduction explaining the importance of the topic, and is supported by homework problems and worked examples. Real world case studies are also provided, as well as new industry-relevant information, making this is an ideal resource for industry practitioners, students, and researchers in the fields of industrial crystallization, separation processes, particle synthesis, and particle technology.

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Editorial Review

About the Author

Alison Lewis is a Professor at the University of Cape Town where she founded the Crystallization and Precipitation Research Unit. She is a registered Professional Engineer, a Fellow of the South African Academy of Engineering (FSAAE), the South African Institute of Chemical Engineers (FSAIChE) and the South African Institute of Mining and Metallurgy (FSAIMM).

Marcelo Seckler is an Associate Professor at the University of São Paulo. He has previously been the CEO of the Brazilian Association for Chemical Engineers and the President of the higher council. He is now a member of the higher council. He also has a fellowship in productivity in technology from Brazil's National Council for Scientific and Technological Development.

Herman Kramer is an Associate Professor in the Department of Process and Energy at Delft University of Technology and he is also a board member of the European Working Party on Industrial Crystallization and organizer of a number of international conferences.

Gerda van Rosmalen spent twenty years as Professor of Industrial Crystallization and Clean Technology at the Laboratory for Process Equipment at Delft University of Technology and her distinguished positions include being a Board Member of the Working Party on Industrial Crystallization of the European Federation of Chemical Engineers.

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