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Wolfgang Beckmann

Crystallization

Basic Concepts and Industrial Applications



Crystallization Basic Concepts And Industrial Applications

**Alison Lewis, Marcelo Seckler, Herman
Kramer, Gerda van Rosmalen**



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Conceptual Design of Crystallization Processes Christianto Wibowo, Ka Ming Ng, 2020-11-23 The book presents in a unified manner various crystallization design methods It discusses in detail the geometric framework for representing complex phase behavior involving multiple solutes enantiomers hydrates compounds polymorphs and solid solutions through visualization of high dimensional phase diagrams It also describes how the impact of transport processes is accounted for using kinetically controlled process paths

Advances in Industrial Crystallization Heike Lorenz, Erik Temmel, 2021-06-15 This Special Issue is result of a call for papers of the Section Industrial Crystallization of MDPI s scientific journal Crystals It addresses scientists and engineers active in research and process product development in life science industries e g pharmaceuticals fine chemicals and biotechnology products and bulk chemical applications e g desalination as well The contributions comprise several fundamental and application oriented facets of crystallization providing an overview of industrially relevant subjects in the field Main issues cover phase equilibria and solid state behavior of crystalline compounds crystal shape and size and related measurement techniques Melt and solution crystallization are considered specifically addressing contemporary aspects of continuous crystallization and process intensification

[Chemical Processes for a Sustainable Future](#) Trevor Letcher, Janet Scott, Darrell Patterson, 2015-11-09 This comprehensive book approaches sustainability from two directions the reduction of pollution and the maintaining of existing resources both of which are addressed in a thorough examination of the main chemical processes and their impact Divided into five sections each introduced by a leading expert in the field the book takes the reader through the various types of chemical processes demonstrating how we must find ways to lower the environmental cost of both pollution and contributions to climate change of producing chemicals Each section consists of several chapters presenting the latest facts and opinion on the methodologies being adopted by the chemical industry to provide a more sustainable future A follow up to Materials for a Sustainable Future Royal Society of Chemistry 2012 this book will appeal to the same broad readership industrialists and investors policy makers in local and central governments students teachers scientists and engineers

working in the field and finally editors journalists and the general public who need information on the increasingly popular concepts of sustainable living

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

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SME Mineral Processing and Extractive Metallurgy Handbook Courtney A. Young, 2019-02-01 This landmark publication distills the body of knowledge that characterizes mineral processing and extractive metallurgy as disciplinary fields It will inspire and inform current and future generations of minerals and metallurgy professionals Mineral processing and extractive metallurgy are atypical disciplines requiring a combination of knowledge experience and art Investing in this trove of valuable information is a must for all those involved in the industry students engineers mill managers and operators More than 192 internationally recognized experts have contributed to the handbook s 128 thought provoking chapters that examine nearly every aspect of mineral processing and extractive metallurgy This inclusive reference addresses the magnitude of traditional industry topics and also addresses the new technologies and important cultural and social issues that are important today Contents Mineral Characterization and Analysis Management and Reporting Comminution Classification and Washing Transport and Storage Physical Separations Flotation Solid and Liquid Separation Disposal Hydrometallurgy Pyrometallurgy Processing of Selected Metals Minerals and Materials

Solid-Liquid Separation Technologies Olayinka I. Ogunsola, Isaac K. Gamwo, 2022-04-19 This book presents recent research and advances in various solid liquid separation technologies and some applications for treating produced water It covers fundamental principles and the importance of produced water in major industrial sectors and compares solid liquid separation

technologies In addition this book Presents the results of research studies conducted to evaluate the performance of solid liquid separation technologies Discusses a wide range of technologies including membrane filtration crystallization desalination supercritical fluids coagulation and floatation Includes experimental theoretical modeling and process design studies With its comprehensive coverage this book is an essential reference for chemical researchers scientists and engineers in industry academia and professional laboratories It is also an important resource for graduate and advanced undergraduate students studying solid liquid separations

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