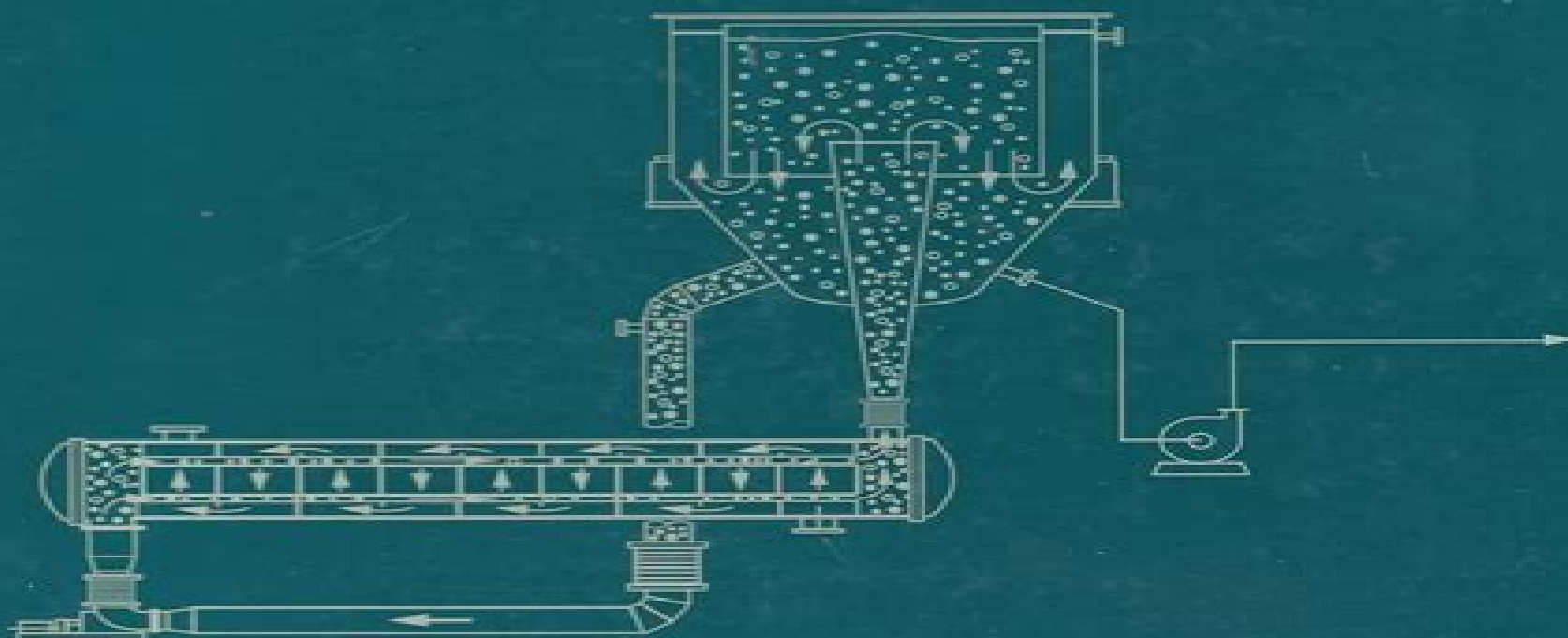


Handbook of Industrial Crystallization

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Allan S. Myerson



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Handbook of Industrial Crystallization Allan Myerson, 2002-01-08 Crystallization is an important separation and purification process used in industries ranging from bulk commodity chemicals to specialty chemicals and pharmaceuticals. In recent years a number of environmental applications have also come to rely on crystallization in waste treatment and recycling processes. The authors provide an introduction to the field of newcomers and a reference to those involved in the various aspects of industrial crystallization. It is a complete volume covering all aspects of industrial crystallization including material related to both fundamentals and applications. This new edition presents detailed material on crystallization of biomolecules, precipitation, impurity, crystal interactions, solubility, and design. Provides an ideal introduction for industrial crystallization newcomers. Serves as a worthwhile reference to anyone involved in the field. Covers all aspects of industrial crystallization in a single complete volume.

Handbook of Continuous Crystallization Nima Yazdanpanah, Zoltan K Nagy, 2020-02-04 Continuous crystallization is an area of intense research with particular respect to the pharmaceutical industry and fine chemicals. Improvements in continuous crystallization technologies offer chemical industries significant financial gains through reduced expenditure and operational costs and consistent product quality. Written by well-known leaders in the field, *The Handbook of Continuous Crystallization* presents fundamental and applied knowledge with attention paid to application and scaling up and the burgeoning area of process intensification. Beginning with concepts around crystallization techniques and control strategies, the reader will learn about experimental methods and computational tools. Case studies spanning fine and bulk chemicals, the pharmaceutical industry, and employing new mathematical tools put theory into context.

Handbook of Crystal Growth Peter Rudolph, 2014-11-04 Vol 2A Basic Technologies *Handbook of Crystal Growth Second Edition Volume IIA Basic Technologies* presents basic growth technologies and modern crystal cutting methods. Particularly the methodical fundamentals and development of technology in the field of bulk crystallization on both industrial and research scales are explored. After an introductory chapter on the formation of minerals, ruling historically the basic crystal formation parameters, advanced basic technologies from melt solution and vapour being applied for research and production of the today most important materials like silicon semiconductor compounds and oxides are presented in detail. The interdisciplinary and general importance of crystal growth for human life are illustrated. Vol 2B Growth Mechanisms and Dynamics *Handbook of Crystal Growth Second Edition Volume IIB Growth Mechanisms and Dynamics* deals with characteristic mechanisms and dynamics accompanying each bulk crystal growth method discussed in Volume IIA. Before the atoms or molecules pass over from a position in the fluid medium (gas, melt, or solution) to their place in the crystalline face, they must be transported in the fluid over macroscopic distances by diffusion, buoyancy-driven convection, surface tension-driven convection, and forced convection, rotation, acceleration, vibration, magnetic mixing. Further, the heat of fusion and the part carried by the species on their way to the crystal by conductive and convective transport must be

dissipated in the solid phase by well organized thermal conduction and radiation to maintain a stable propagating interface. Additionally segregation and capillary phenomena play a decisional role for chemical composition and crystal shaping respectively. Today the increase of high quality crystal yield, its size enlargement and reproducibility are imperative conditions to match the strong economy. Volume 2A Presents the status and future of Czochralski and float zone growth of dislocation free silicon. Examines directional solidification of silicon ingots for photovoltaics, vertical gradient freeze of GaAs, CdTe for HF electronics and IR imaging as well as antiferromagnetic compounds and super alloys for turbine blades. Focuses on growth of dielectric and conducting oxide crystals for lasers and non linear optics. Topics on hydrothermal flux and vapour phase growth of III nitrides, silicon carbide and diamond are explored. Volume 2B Explores capillarity control of the crystal shape at the growth from the melt. Highlights modeling of heat and mass transport dynamics. Discusses control of convective melt processes by magnetic fields and vibration measures. Includes imperative information on the segregation phenomenon and validation of compositional homogeneity. Examines crystal defect generation mechanisms and their controllability. Illustrates proper automation modes for ensuring constant crystal growth process. Exhibits fundamentals of solution growth, gel growth of protein crystals, growth of superconductor materials and mass crystallization for food and pharmaceutical industries. American Book Publishing Record, 2002. The British National Bibliography Arthur James Wells, 2002.

Forthcoming Books Rose Army, 2001. Handbook of Industrial Crystallization Allan S. Myerson, 2002. **Discovering and Developing Molecules with Optimal Drug-Like Properties** Allen C Templeton, Stephen R. Byrn, Roy J Haskell, Thomas E. Prisinzano, 2014-10-31. This authoritative volume provides a contemporary view on the latest research in molecules with optimal drug like properties. It is a valuable source to access current best practices as well as new research techniques and strategies. Written by leading scientists in their fields, the text consists of fourteen chapters with an underlying theme of early collaborative opportunities between pharmaceutical and discovery sciences. The book explores the practical realities of performing physical pharmaceutical and biopharmaceutical research in the context of drug discovery with short timelines and low compound availability. Chapters cover strategies and tactics to enable discovery as well as predictive approaches to establish, understand and communicate risks in early development. It also examines the detection, characterization and assessment of risks on the solid state properties of advanced discovery and early development candidates, highlighting the link between solid state properties and critical development parameters such as solubility and stability. Final chapters center on techniques to improve molecular solubilization and prevent precipitation with particular emphasis on linking physiochemical properties of molecules to formulation selection in preclinical and clinical settings.

Industrial crystallization, 1979. **Industrial Crystallization** Narayan S. Tavare, 2014-01-15. **Industrial Crystallization : Proceedings** (Czechoslovak Republic) Symposium on Industrial Crystallization (6th : 1975 : Ustinad Labem, 1976. Crystallization Technology Handbook A. Mersmann, 2001-05-08. This handbook seeks to facilitate the

selection design and operation of large scale industrial crystallizers that process crystals with the proper size distribution shape and purity sought This second edition offers results on direct contact cooling crystallization

Crystallization as a Separations Process Allan S. Myerson, 1990 Developed from a symposium sponsored by the International Chemical Congress of the Pacific Basin Societies Honolulu Hawaii December 1989 this book presents the current research which will aid in the development implementation and improvement of crystallization as a separation and purification process Sections cover basic studies including crystal growth nucleation impurity crystal interactions and solution structure crystallizer operation and control crystallization of organic and biomolecules and crystallization and precipitation of inorganic materials Annotation copyrighted by Book News Inc Portland OR

Industrial Crystallization Alison Lewis, Marcelo Seckler, Herman Kramer, Gerda van Rosmalen, 2015-07-02 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

Kinetics of Industrial Crystallization , 1985

Industrial Crystallization Process Monitoring and Control Angelo Chianese, Herman J. Kramer, 2012-04-16 Crystallization is an important technique for separation and purification of substances as well as for product design in chemical pharmaceutical and biotechnological process industries This ready reference and handbook draws on research work and industrial practice of a large group of experts in the various areas of industrial crystallization processes capturing the essence of current trends the markets design tools and technologies in this key field Along the way it outlines trouble free production provides laboratory controls analyses case studies and discusses new challenges First the instrumentation and techniques used to measure the crystal size distribution the nucleation and solubility points and the chemical composition of the solid and liquid phase are outlined Then the main techniques adopted to control industrial crystallizers starting from fundamental approaches to the most advanced ones including the multivariable predictive control are described An overview of the main crystallizer types is given with details of the main control schemes adopted in industry as well as the more suitable sensors and actuators

The Kinetics of Industrial Crystallization , 1985

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equipment and process design The book takes a balanced functional approach in its critical survey of research literature and includes several problems based on real practical situations that illustrate theoretical development Several new concepts and techniques used in process simulation and identification analysis are featured Handbook of Crystal Growth Tatau Nishinaga, 2014-11-04 Volume IAHandbook of Crystal Growth 2nd Edition Fundamentals Thermodynamics and Kinetics Volume IA addresses the present status of crystal growth science and provides scientific tools for the following volumes Volume II Bulk Crystal Growth and III Thin Film Growth and Epitaxy Volume IA highlights thermodynamics and kinetics After historical introduction of the crystal growth phase equilibria defect thermodynamics stoichiometry and shape of crystal and structure of melt are described Then the most fundamental and basic aspects of crystal growth are presented along with the theories of nucleation and growth kinetics In addition the simulations of crystal growth by Monte Carlo ab initio based approach and colloidal assembly are thoroughly investigated Volume IBHandbook of Crystal Growth 2nd Edition Fundamentals Transport and Stability Volume IB discusses pattern formation a typical problem in crystal growth In addition an introduction to morphological stability is given and the phase field model is explained with comparison to experiments The field of nanocrystal growth is rapidly expanding and here the growth from vapor is presented as an example For the advancement of life science the crystal growth of protein and other biological molecules is indispensable and biological crystallization in nature gives many hints for their crystal growth Another subject discussed is pharmaceutical crystal growth To understand the crystal growth in situ observation is extremely powerful The observation techniques are demonstrated Volume IA Explores phase equilibria defect thermodynamics of Si stoichiometry of oxides and atomistic structure of melt and alloys Explains basic ideas to understand crystal growth equilibrium shape of crystal rough smooth transition of step and surface nucleation and growth mechanisms Focuses on simulation of crystal growth by classical Monte Carlo ab initio based quantum mechanical approach kinetic Monte Carlo and phase field model Controlled colloidal assembly is presented as an experimental model for crystal growth Volume IIB Describes morphological stability theory and phase field model and comparison to experiments of dendritic growth Presents nanocrystal growth in vapor as well as protein crystal growth and biological crystallization Interprets mass production of pharmaceutical crystals to be understood as ordinary crystal growth and explains crystallization of chiral molecules Demonstrates in situ observation of crystal growth in vapor solution and melt on the ground and in space

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