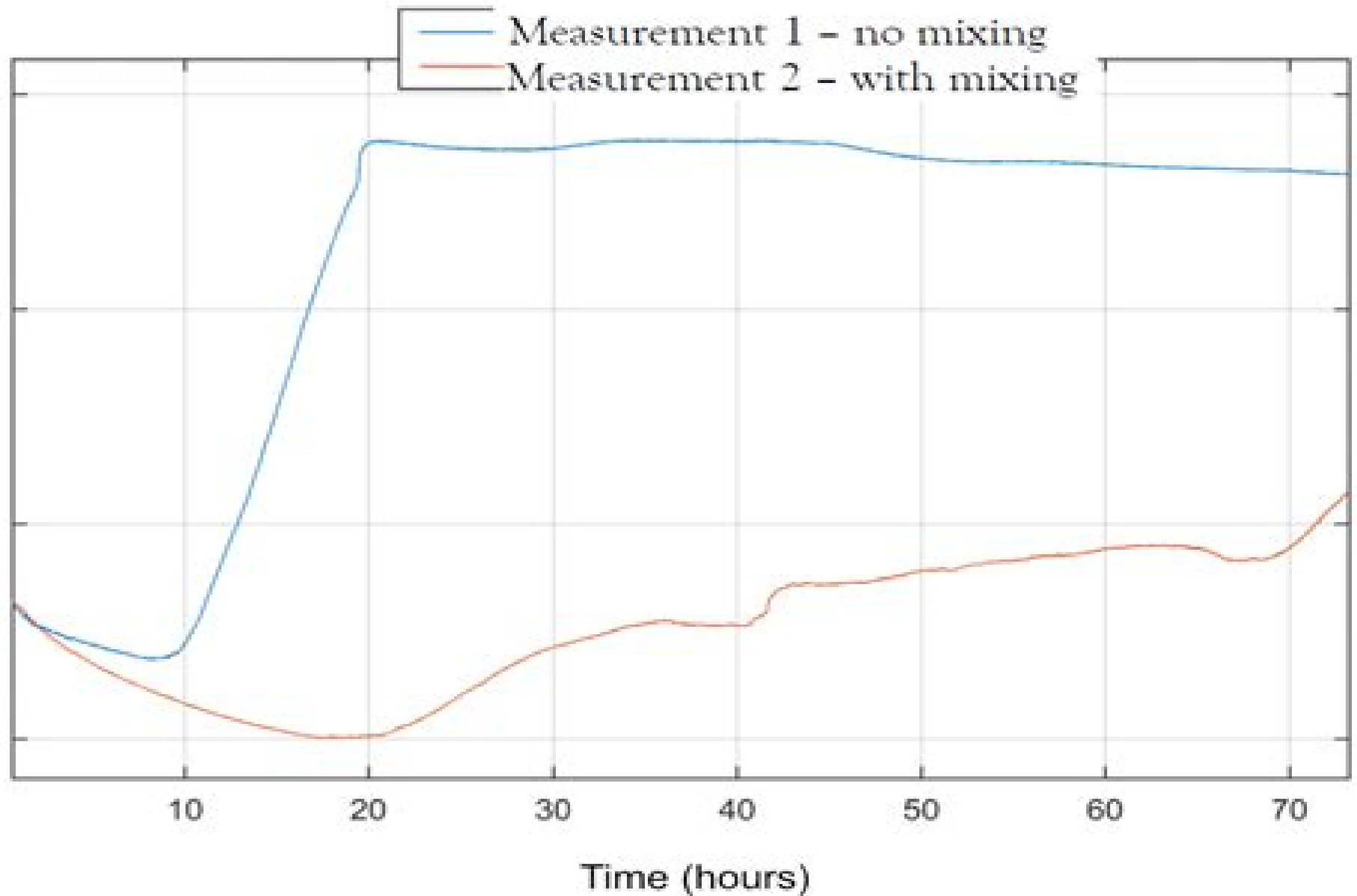


Mixing and crystallization



Mixing And Crystallization

Jack Zheng



Mixing And Crystallization:

Mixing and Crystallization Bhaskar Sen Gupta, Shaliza Ibrahim, 2000-04-30 We are honoured to present this collection of selected papers from the International Conference on Mixing and Crystallization held at the Tioman Island Malaysia in April 1998 We are grateful to the editorial board comprising five eminent researchers in the field of mixing and crystallization for their thoughtful review and suggestions In order to make this book as current as possible some of the papers have been thoroughly revised which caused some delay in bringing out this edited version We received necessary support from the Institute of Post Graduate Studies and Research the University of Malaya and the Special Research Centre for Multiphase Processes and the University of Newcastle Australia in organizing this conference We are indebted to the Institute of Chemical Engineers United Kingdom and the Institution of Engineers Malaysia for their sponsorship We would like to thank K C Lim Dr C Ramakanth and Ms Zubaidah for their help at the various stages of editing We would also like to express our gratitude to Professor Mohd Ali Hashim and Dr Nafis Ahmed for their help and encouragement Finally I would like to thank Kluwer Academic Publishers for publishing this book Bhaskar Sen Gupta Shaliza Ibrahim University of Malaya Kuala Lumpur xi

CFD MODELLING OF HYDRODYNAMIC CONDITIONS WITHIN THE WAKE OF MIXING IMPELLER BLADES 1 G D RIGBY
G LANE AND G M EVANS

Handbook of Industrial Mixing Edward L. Paul, Victor A. Atiemo-Obeng, Suzanne M.

Kresta, 2004-02-03 Handbook of Industrial Mixing will explain the difference and uses of a variety of mixers including gear mixers top entry mixers side entry mixers bottom entry mixers on line mixers and submerged mixers The Handbook discusses the trade offs among various mixers concentrating on which might be considered for a particular process Handbook of Industrial Mixing explains industrial mixers in a clear concise manner and also Contains a CD ROM with video clips showing different type of mixers in action and a overview of their uses Gives practical insights by the top professional in the field Details applications in key industries Provides the professional with information he did receive in school

Crystallization of Organic Compounds Hsien-Hsin Tung, Edward L. Paul, Michael Midler, James A. McCauley, 2009-06-17 Filled with industrial examples emphasizing the practical applications of crystallization methodologies Based on the authors hands on experiences as process engineers at Merck Crystallization of Organic Compounds guides readers through the practical aspects of crystallization It uses plenty of case studies and examples of crystallization processes ranging from development through manufacturing scale up The book not only emphasizes strategies that have been proven successful it also helps readers avoid common pitfalls that can render standard procedures unsuccessful The goal of this text is twofold Build a deeper understanding of the fundamental properties of crystallization as well as the impact of these properties on crystallization process development Improve readers problem solving abilities by using actual industrial examples with real process constraints Crystallization of Organic Compounds begins with detailed discussions of fundamental thermodynamic properties nucleation and crystal growth kinetics process dynamics and scale up considerations Next it investigates modes of

operation including cooling evaporation anti solvent and reactive crystallization The authors conclude with special applications such as ultrasound in crystallization and computational fluid dynamics in crystallization Most chapters feature multiple examples that guide readers step by step through the crystallization of active pharmaceutical ingredients APIs With its focus on industrial applications this book is recommended for chemical engineers and chemists who are involved with the development scale up or operation of crystallization processes in the pharmaceutical and fine chemical industries

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 fieldCovers all aspects of industrial crystallization in a single complete volume

Handbook of Industrial Drying, Fourth Edition Arun S. Mujumdar,2014-07-11 By far the most commonly encountered and energy intensive unit operation in almost all industrial sectors industrial drying continues to attract the interest of scientists researchers and engineers The Handbook of Industrial Drying Fourth Edition not only delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations New to the Fourth Edition Computational fluid dynamic simulation Solar impingement and pulse combustion drying Drying of fruits vegetables sugar biomass and coal Physicochemical aspects of sludge drying Life cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential the Handbook of Industrial Drying Fourth Edition not only details the latest developments in the field but also explains how improvements in dryer design and operation can increase energy efficiency and cost effectiveness

Formulation and Analytical Development for Low-Dose Oral Drug Products Jack Zheng,2009-02-09 There are unique challenges in the formulation manufacture analytical chemistry and regulatory requirements of low dose drugs This book provides an overview of this specialized field and combines formulation analytical and regulatory aspects of low dose development into a single reference book It describes analytical methodologies like dissolution testing solid state NMR Raman microscopy and LC MS and presents manufacturing techniques such as granulation compaction and compression Complete with case studies and a discussion of regulatory requirements this is a core reference for pharmaceutical scientists regulators and graduate students

Advances in Industrial Mixing Suzanne M. Kresta,Arthur W. Etchells, III,David S. Dickey,Victor A. Atiemo-Obeng,North American Mixing Forum,2016-03-11 Advances in Industrial Mixing is a companion

volume and update to the Handbook of Industrial Mixing The second volume fills in gaps for a number of industries that were not covered in the first edition Significant changes in five of the fundamental areas are covered in entirely updated or new chapters The original text is provided as a searchable pdf file on the accompanying USB This book explains industrial mixers and mixing problems clearly and concisely Gives practical insights by the top professionals in the field combining industrial design standards with fundamental insight Details applications in 14 key industries Six of these are new since the first edition Provides the professional with information he she did not receive in school Five completely rewritten chapters on mixing fundamentals where significant advances have happened since the first edition and seven concise update chapters which summarize critical technical information

Meteorites and the Early Solar System II Dante S. Lauretta, Harry Y. McSween, 2006-07 They range in size from microscopic particles to masses of many tons The geologic diversity of asteroids and other rocky bodies of the solar system are displayed in the enormous variety of textures and mineralogies observed in meteorites The composition chemistry and mineralogy of primitive meteorites collectively provide evidence for a wide variety of chemical and physical processes This book synthesizes our current understanding of the early solar system summarizing information about processes that occurred before its formation It will be valuable as a textbook for graduate education in planetary science and as a reference for meteoriticists and researchers in allied fields worldwide

Turbulent Mixing and Chemical Reactions Jerzy Baldyga, John R. Bourne, 1999-03-12 Turbulent Mixing and Chemical Reactions Jerzy Ba dyga Warsaw University of Technology Poland John R Bourne Visiting Professor University of Birmingham UK and Emeritus Professor ETH Zurich Switzerland The way in which reagents are mixed can greatly influence the yield and range of products formed by fast multiple chemical reactions Understanding this phenomenon enables chemists to carry out reactions more selectively make better use of raw materials and simplify product workup and separation Turbulent Mixing and Chemical Reactions presents a balanced treatment of the connection between mixing and reaction It contains theoretical aspects experimental methods and expected results as well as worked examples to illustrate problem solving This book will be of interest to all scientists involved in chemical engineering physical chemistry and synthetic chemists in the fine chemical and pharmaceuticals industry

Effect of Mixing on Crystallization in a Continuous Agitated Suspension Crystallizer Sameer Ramesh Deshpande, 1998

Supercritical Water Processing Technologies for Environment, Energy and Nanomaterial Applications Shuzhong Wang, Donghai Xu, Yang Guo, Xingying Tang, Yuzhen Wang, Jie Zhang, Honghe Ma, Lili Qian, Yanhui Li, 2019-09-18 This book systematically presents the technical aspects of supercritical water oxidation and supercritical water gasification for energy and environmental applications which include reactor design construction materials corrosion salt precipitation etc The book provides a comprehensive introduction to the properties of supercritical water and the industrial applications reaction mechanisms and reaction kinetics of supercritical water oxidation SCWO and supercritical water gasification SCWG The reactions occurring in supercritical water are complex and studying their reaction

mechanisms is of great importance for the development of supercritical water processing technologies Accordingly the book explains the oxidative mechanisms and kinetics of organic matter in supercritical water in detail However the harsh reaction conditions in supercritical water can easily create severe reactor corrosion and salt deposition problems Therefore the book also comprehensively reports on the mechanism analysis state of research and development trends regarding these two problems Lastly the book summarizes the development of supercritical water processing technologies including studies on SCWO and SCWG as well as near zero emission systems of pollutants based on SCWO technology In short the book provides a wealth of valuable information for all readers who are interested in using SCWO for organic waste treatment and in using SCWG for hydrogen production with wet biomass

Advanced Computational Techniques for Heat and Mass Transfer in Food Processing Krunal M. Gangawane, Madhuresh Dwivedi, 2022-02-01 Computational methods have risen as a powerful technique for exploring the system phenomena and solving real life problems Currently there are two principle computational approaches for system analysis continuous and discrete In the continuous approach the governing equations can be obtained by applying the fundamental laws such as conservation of mass momentum and energy over an infinitesimal control volume On the other hand the discrete approach concentrates on mimicking the molecular movement within the system Both approaches have pros and cons and continuous development and improvement in the existing computational methods are ongoing Advanced Computational Techniques for Heat and Mass Transfer in Food Processing provides in a single source information on the use of methods based on numerical and computational analysis as applied in food science and technology It explores the use of various numerical computational techniques for the simulation of fluid flow and heat and mass transfer within food products Key Features Explores various numerical techniques used for modeling and validation Describes the knowhow of numerical and computational techniques for food process operations Covers a detailed numerical or computational approach of the principles of heat and mass transfer in the food processing operation Discusses the detailed computational simulation procedure of the food operation Recent years have witnessed a rapid development in the field of computational techniques owing to its abundant benefit to the food processing industry The relevance of advanced computational methods has helped in understanding the fundamental physics of thermal and hydrodynamic behavior that can provide benefits to the food processing industry in numerous applications As a single information source for those interested in the use of methods based on numerical and computational analysis as applied in food science and technology this book will ably serve any food academician or researcher in learning the advanced numerical techniques exploring fluid flow crystallization and other food processing operations

Encyclopedia of Polymer Blends, Volume 3 Avraam I. Isayev, 2016-09-13 A complete and timely overview of the topic this Encyclopedia imparts knowledge of fundamental principles and their applications for academicians scientists and researchers while informing engineers industrialists and entrepreneurs of the current state of the technology and its utilization The most comprehensive source on polymer blends

available on the market Offers a complete and timely overview of the topic Each article presents up to date research development on a topic and its basic principles and applications integrates case studies laboratory and pilot plant experiments and gives due reference to published and patented literature Equips academics scientists and researchers with knowledge of fundamentals principles and their applications and informs the engineers industrialists and entrepreneurs about the state of the art technology and its applications

Petroleum Geology of the Black Sea M.D. Simmons, G.C. Tari, A.I. Okay, 2018-08-14 The Black Sea remains one of the largest underexplored rift basins in the world Future success is dependent on a better understanding of a number of geological uncertainties These include reservoir and source rock presence and quality and the timing of migration of hydrocarbons relative to trap formation An appreciation of the geological history of the Black Sea basins and the surrounding orogens is therefore key The timing of basin formation uplift of the margins and of facies distribution remain issues for robust debate This Special Publication presents the results of 15 studies that relate to the tectono stratigraphy and petroleum geology of the Black Sea The methodologies of these studies encompass crustal structure geodynamic evolution stratigraphy and its regional correlation petroleum systems source to sink hydrocarbon habitat and play concepts and reviews of past exploration They provide insight into the many ongoing controversies concerning Black Sea regional geology and provide a better understanding of the geological risks that must be considered for future hydrocarbon exploration Scientific Canadian Mechanics' Magazine and Patent Office Record Canada. Patent Office, 1912

Structural Analysis of Historical Constructions: Anamnesis, Diagnosis, Therapy, Controls Koen Van Balen, Els Verstrynghe, 2016-11-03 Structural Analysis of Historical Constructions Anamnesis diagnosis therapy controls contains the papers presented at the 10th International Conference on Structural Analysis of Historical Constructions SAHC2016 Leuven Belgium 13-15 September 2016 The main theme of the book is Anamnesis Diagnosis Therapy Controls which emphasizes the importance of all steps of a restoration process in order to obtain a thorough understanding of the structural behaviour of built cultural heritage The contributions cover every aspect of the structural analysis of historical constructions such as material characterization structural modelling static and dynamic monitoring non destructive techniques for on site investigation seismic behaviour rehabilitation traditional and innovative repair techniques and case studies The knowledge insights and ideas in Structural Analysis of Historical Constructions Anamnesis diagnosis therapy controls make this book of abstracts and the corresponding digital full colour conference proceedings containing the full papers must have literature for researchers and practitioners involved in the structural analysis of historical constructions

Batch Processes Ekaterini Korovessi, Andreas A. Linninger, 2005-09-26 Reduced time to market lower production costs and improved flexibility are critical success factors for batch processes Their ability to handle variations in feedstock and product specifications has made them key to the operation of multipurpose facilities and therefore quite popular in the specialty chemical pharmaceutical agricultural and

Polymorphism in the Pharmaceutical Industry

Rolf Hilfiker, Markus von Raumer, 2019-04-29 *Polymorphism in the Pharmaceutical Industry Solid Form and Drug Development* highlights the relevance of polymorphism in modern pharmaceutical chemistry with a focus on quality by design QbD concepts. It covers all important issues by way of case studies ranging from properties and crystallization via thermodynamics, analytics and theoretical modelling right up to patent issues. As such, the book underscores the importance of solid state chemistry within chemical and pharmaceutical development. It emphasizes why solid state issues are important, the approaches needed to avoid problems and the opportunities offered by solid state properties. The authors include true polymorphs as well as solvates and hydrates while providing information on physicochemical properties, crystallization, thermodynamics, quantum mechanical modelling and up scaling. Important analytical tools to characterize solid state forms and to quantify mixtures are summarized and case studies on solid state development processes in industry are also provided. Written by acknowledged experts in the field, this is a high quality reference for researchers, project managers and quality assurance managers in pharmaceutical, agrochemical and fine chemical companies as well as for academics and newcomers to organic solid state chemistry. Using Geochemical Data Hugh R. Rollinson, 2014-01-21 *Using Geochemical Data* brings together in one volume a wide range of ideas and methods currently used in geochemistry, providing a foundation of knowledge from which the reader can interpret, evaluate and present geochemical data. *Handbook of Industrial Drying* Arun S. Mujumdar, 2006-11-08 Still the Most Complete Up To Date and Reliable Reference in the Field. Drying is a highly energy intensive operation and is encountered in nearly all industrial sectors. With rising energy costs and consumer demands for higher quality dried products, it is increasingly important to be aware of the latest developments in industrial drying technology.

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