

Mixing (process engineering)



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Mixing In The Process Industries

**Kishore Kar, Richard Cope, Juergen
Lueske**



Mixing In The Process Industries:

Mixing in the Process Industries A W NIENOW, M F EDWARDS, N. Harnby, 1997-09-11 This volume is a valuable reference work for the student and the practising engineer in the chemical pharmaceutical minerals food plastics paper and metallurgical industries The second edition of this successful text has been thoroughly rewritten and updated Based on the long running post experience course produced by the University of Bradford in association with the Institution of Chemical Engineers it covers all aspects of mixing from fundamentals through to design procedures in single and multi phase systems Experts from both industry and academia have contributed to this work giving both a theoretical practical approach It covers dry and wet powders single and two phase liquids solid liquid and gas liquid systems The range of mixers available for such diverse duties is dealt with including tumbler mixers for powders mechanically agitated vessels in line continuous mixers and jet mixers Coverage is given of the range of mixing objectives varying from achieving product uniformity to obtaining optimum conditions for mass transfer and chemical reactions This volume is a valuable reference work for the student and the practising engineer in the chemical pharmaceutical minerals food plastics paper and metallurgical industries The second edition of this successful text has been thoroughly rewritten and updated Based on the long running post experience course produced by the University of Bradford in association with the Institution of Chemical Engineers it covers all aspects of mixing from fundamentals through to design procedures in single and multi phase systems Experts from both industry and academia have contributed to this work giving both a theoretical practical approach It covers dry and wet powders single and two phase liquids solid liquid and gas liquid systems The range of mixers available for such diverse duties is dealt with including tumbler mixers for powders mechanically agitated vessels in line continuous mixers and jet mixers Coverage is given of the range of mixing objectives varying from achieving product uniformity to obtaining optimum conditions for mass transfer and chemical reactions

Mixing for the Process Industries R. McDonough, 1992 This book is written primarily for an audience of engineers who design specify procure update and maintain mixers in the processing industries It is an application oriented handbook to support the design and operation of mixers for liquids liquids and solids liquids and gases and any combination thereof This book does not address solids mixing Mixing applications are identified as either flow controlling or shear rate controlling and are addressed as such Specific mixing applications and design parameters are presented for blending solid suspension heat transfer mass transfer dispersions extractions etc Fundamentals of mixer design and operation agitation applications spectrum types and geometries of mixing impellers etc are presented in Chapter I providing the basis for practical information presented in subsequent chapters Flow controlled mixing applications are discussed in Chapter 2 These include blending solid suspension heat transfer dissolving of solids and crystallization Optimization of mixer design is emphasized with an eye to saving power and capital cost Also discussed is the use of draft tube circulator mixers to optimize mixer performance and cost Shear controlled mixing applications are addressed in Chapter 3 These in

clude gas liquid dispersions mass transfer fermentation emulsions extractions and dispersions of solids in liquids Chapter 4 focuses on geometric and nongeometric scaleup of mixers to accomplish equal or better mixing results in various scales of volume Scaleup relevant to applications of blending solids suspension and mass and heat transfer is explained **Mixing in Process Industries** Harnby,1992-11-01 **Mixing for the Process Industries** R. McDonough,2014-01-14 This book is written primarily for an audience of engineers who design specify procure update and maintain mixers in the processing industries It is an application oriented handbook to support the design and operation of mixers for liquids liquids and solids liquids and gases and any combination thereof This book does not address solids mixing Mixing applications are identified as either flow controlling or shear rate controlling and are addressed as such Specific mixing applications and design parameters are presented for blending solid suspension heat transfer mass transfer dispersions extractions etc Fundamentals of mixer design and operation agitation applications spectrum types and geometries of mixing impellers etc are presented in Chapter I providing the basis for practical information presented in subsequent chapters Flow controlled mixing applications are discussed in Chapter 2 These include blending solid suspension heat transfer dissolving of solids and crystallization Optimization of mixer design is emphasized with an eye to saving power and capital cost Also discussed is the use of draft tube circulator mixers to optimize mixer performance and cost Shear controlled mixing applications are addressed in Chapter 3 These include gas liquid dispersions mass transfer fermentation emulsions extractions and dispersions of solids in liquids Chapter 4 focuses on geometric and nongeometric scaleup of mixers to accomplish equal or better mixing results in various scales of volume Scaleup relevant to applications of blending solids suspension and mass and heat transfer is explained

Non-Newtonian Flow in the Process Industries R. P. Chhabra,John Francis Richardson,1999 Non Newtonian fluid behaviour Rheometry for non Newtonian fluids Flow in pipes and conduits of non circular cross sections Flow of multi phase mixtures in pipes Particulate systems Heat transfer characteristics of non Newtonian fluids in pipes Momentum heat and mass transfer in boundary layers Liquid mixing **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 **Multiphase Mixing in the Process Industries** Amna Jamshed,2019 **Food Powders** Enrique Ortega-Rivas,Pablo Juliano,Hong Yan,2006-04-04 This useful reference is the first book to address key aspects of food powder technology It assembles organized and updated information on the physical properties production and functionality of food

powder previously unavailable in book form **Food Processing Handbook** James G. Brennan, 2006-05-12 Focusing on the technology involved this handbook describes the principles as well as the equipment used and the changes physical chemical microbiological and organoleptic that occur during food preservation In doing so the text covers in detail such techniques as post harvest handling thermal processing evaporation and dehydration freezing irradiation high pressure processing emerging technologies baking extrusion frying and packaging In addition current concerns about the safety of processed foods and control of food processes are addressed as are the impact of processing on the environment and separation and conversion operations widely used in the food industry Scientists and engineers involved in food manufacture research and development in both industry and academia will benefit greatly from the contents as will students studying food related topics at undergraduate and postgraduate levels *Multiphase Flows for Process Industries* Vivek V. Ranade, Ranjeet P. Utikar, 2022-03-30 Discover the cutting edge in multiphase flows used in the process industries In *Multiphase Flows for Process Industries Fundamentals and Applications* a team of accomplished chemical engineers delivers an insightful and complete treatment of the state of the art in commonly encountered multiphase flows in the process industries After discussing the theoretical background experimental methods and computational methods applicable to multiphase flows the authors explore specific examples from the process industries The book covers a wide range of multiphase flows including gas solid fluidized beds and flows with phase change It also provides direction on how to use current advances in the field to realize efficient and optimized processes Filling the gap between theory and practice this unique reference also includes A thorough introduction to multiphase flows and the process industry Practical discussions of flow regimes lower order models and correlations and the chronological development of mathematical models for multiphase flows Comprehensive explorations of experimental methods for characterizing multiphase flows including flow imaging and visualization In depth examinations of computational models for simulating multiphase flows Perfect for chemical and process engineers *Multiphase Flows for Process Industries Fundamentals and Applications* is required reading for graduate and doctoral students in the engineering sciences as well as professionals in the chemical industry *Mixing Process Technology* Kishore Kar, Richard Cope, Juergen Lueske, 2025-07-31 Industrial mixing processes often present multiple optimization challenges to producing desirable products The resulting processes must be cost effective first time right and frequently the designated most effective technology for the global manufacture of specific products *Mixing Process Technology A Guide to Industrial Applications* shares the authors extensive knowledge of mixing research and industrial practice It features 20 industrial mixing chapters that are purposely light on mixing fundamentals while heavy on practical mixing applications for practical process design and manufacturing This text serves as an applied guide to industrial mixing for practitioners who want brief explanations of mixing concepts with real life examples and software to help perform associated design calculations This book also Offers side by side discussion of mixing systems including impellers and rotor stators as offered by several major

manufacturers Describes the authors innovative mixer designs to meet manufacturing needs Includes a chapter by a mixer manufacturing representative describing design sizing and expensing of industrial mixers Presents a chapter by a mixing equipment manufacturing leader that explains mechanical design considerations in clear terms Contains a chapter on emerging mixing technologies including mixing via resonant acoustics and controlled cavitation Discusses computational fluid dynamics in mixing with multiple practical examples by a contributing author from a leading pharmaceutical company Includes Excel based mixing worksheets throughout book examples and Excel based input output mixit io interface hosted on the publisher s website This book is aimed at chemical and process engineers as well as students seeking to understand industrial mixing technology **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 *Chemical Engineering for the Food Industry* D. Leo Pyle,Peter J. Fryer,Chris D. Reilly,2012-12-06 Industrial food processing involves the production of added value foods on a large scale these foods are made by mixing and processing different ingredients in a prescribed way The food industry historically has not designed its processes in an engineering sense i e by understanding the physical and chemical principles which govern the operation of the plant and then using those principles to develop a process Rather processes have been designed by purchasing equipment from a range of suppliers and then connecting that equipment together to form a complete process When the process being run has essentially been scaled up from the kitchen then this may not matter However there are limits to the approach As the industry becomes more sophisticated and economies of scale are exploited then the size of plant reaches a scale where systematic design techniques are needed The range of processes and products made by the food industry has increased to include foods which have no kitchen counterpart such as low fat spreads It is vital to ensure the quality and safety of the product Plant must be flexible and able to cope with the need to make a variety of products from a range of ingredients This is especially important as markets evolve with time The traditional design process cannot readily handle multi product and multi stream operations Processes must be energetically efficient and meet modern environmen tal standards **Handbook of Formulating Dermal Applications** Nava Dayan,2016-12-15 The conceptualization and formulation of skin care products intended for topical use is a multifaceted and evolving area of

science Formulators must account for myriad skin types emerging opportunities for product development as well as a very temperamental retail market Originally published as Apply Topically in 2013 now out of print this reissued detailed and comprehensive handbook offers a practical approach to the formulation chemist's day to day endeavors by Addressing the innumerable challenges facing the chemist both in design and at the bench such as formulating with for specific properties formulation processing and production techniques sensory and elegance stability and preservation color cosmetics sunscreens Offering valuable guidance to troubleshooting issues regarding ingredient selection and interaction regulatory concerns that must be addressed early in development and the extrapolation of preservative systems fragrances stability and texture aids Exploring the advantages and limitations of raw materials Addressing scale up and pilot production process and concerns Testing and Measurements Methods The 22 chapters written by industry experts such as Roger L McMullen Paul Thau Hemi Nae Ada Polla Howard Epstein Joseph Albanese Mark Chandler Steve Herman Gary Kelm Patricia Aikens and Sam Shefer along with many others give the reader and user the ultimate handbook on topical product development

The Engineering Handbook Richard C Dorf, 2018-10-03 First published in 1995 The Engineering Handbook quickly became the definitive engineering reference Although it remains a bestseller the many advances realized in traditional engineering fields along with the emergence and rapid growth of fields such as biomedical engineering computer engineering and nanotechnology mean that the time has come to bring this standard setting reference up to date New in the Second Edition 19 completely new chapters addressing important topics in bioinstrumentation control systems nanotechnology image and signal processing electronics environmental systems structural systems 131 chapters fully revised and updated Expanded lists of engineering associations and societies The Engineering Handbook Second Edition is designed to enlighten experts in areas outside their own specialties to refresh the knowledge of mature practitioners and to educate engineering novices Whether you work in industry government or academia this is simply the best most useful engineering reference you can have in your personal office or institutional library

Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents A. Kayode Coker, 2024-07-10 Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents is ever evolving starting with the first edition some 60 years ago The volumes in this fifth edition provide improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to the properly detailed hardware As indicative of the new title process safety incidents are incorporated in many of the chapters reviewing the root causes and how these could be mitigated in future Like its predecessor this new edition continues to present updated information for achieving optimum operational and process conditions and to avoid problems caused by inadequate sizing and lack of internally detailed hardware The volumes provide both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort This approach in presenting design information is essential for

troubleshooting process equipment and in executing system performance analysis Volume 1B continues to cover mixing of liquids process safety and pressure relieving devices metallurgy and corrosion and process optimization It builds upon Ernest E Ludwig s classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals This new edition includes new content on three phase separation mixing of liquids ejectors and mechanical vacuum systems process safety and pressure relieving devices metallurgy and corrosion and optimization of chemical process blending Some chapters review pressure relieving devices and provide case studies for process safety incidents which are well illustrated from US Chemical Safety Hazard Investigation Board www.csb.gov Finally this book contains a glossary of Petroleum and Petrochemical Terminologies and Physical and Chemical Characteristics of Major Hydrocarbons Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers complete range of basic day to day petrochemical operation topics Extensively revised with new material added on three phase separation metallurgy and corrosion Process safety management HAZOP and hazard analyses and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 30 process data sheets in excel format

Non-Newtonian Flow R. P. Chhabra, J.F. Richardson, 1999-08-19 Non Newtonian materials are encountered in virtually all of the chemical and process industries and a full understanding of their nature and flow characteristics is an essential requirement for engineers and scientists involved in their formulation and handling This book will bridge the gap between much of the highly theoretical and mathematically complex work of the rheologist and the practical needs of those who have to design and operate plants in which these materials are handled and processed At the same time numerous references are included for the benefit of those who need to delve more deeply into the subject The starting point for any work on non newtonian fluids is their characterisation over the range of conditions to which they are likely to be subjected during manufacture or utilisation and this topic is treated early on in the book in a chapter commissioned from an expert in the field of rheological measurements Coverage of topics is extensive and this book offers a unique and rich selection of material including the flow of single phase and multiphase mixtures in pipes in packed and fluidised bed systems heat and mass transfer in boundary layers and in simple duct flows and mixing etc An important and novel feature of the book is the inclusion of a wide selection of worked examples to illustrate the methods of calculation It also incorporates a large selection of problems for the reader to tackle himself Handbook of Food Process Design, 2 Volume Set Jasim Ahmed, Mohammad Shafiur Rahman, 2012-05-21 In the 21st Century processing food is no longer a simple or straightforward matter Ongoing advances in manufacturing have placed new demands on the design and methodology of food processes A highly interdisciplinary science food process design draws upon the principles of chemical and mechanical engineering

microbiology chemistry nutrition and economics and is of central importance to the food industry Process design is the core of food engineering and is concerned at its root with taking new concepts in food design and developing them through production and eventual consumption Handbook of Food Process Design is a major new 2 volume work aimed at food engineers and the wider food industry Comprising 46 original chapters written by a host of leading international food scientists engineers academics and systems specialists the book has been developed to be the most comprehensive guide to food process design ever published Starting from first principles the book provides a complete account of food process designs including heating and cooling pasteurization sterilization refrigeration drying crystallization extrusion and separation Mechanical operations including mixing agitation size reduction extraction and leaching processes are fully documented Novel process designs such as irradiation high pressure processing ultrasound ohmic heating and pulsed UV light are also presented Food packaging processes are considered and chapters on food quality safety and commercial imperatives portray the role process design in the broader context of food production and consumption

Chemical Process Equipment James R. Couper, W Roy Penney, James R. Fair PhD, 2012-12-06 Chemical Process Equipment is a results oriented reference for engineers who specify design maintain or run chemical and process plants This book delivers information on the selection sizing and operation of process equipment in a format that enables quick and accurate decision making on standard process and equipment choices saving time improving productivity and building understanding Coverage emphasizes common real world equipment design rather than experimental or esoteric and focuses on maximizing performance Legacy reference for chemical and related engineers who work with vendors to design specify and make final equipment selection decisions Copious examples of successful applications with supporting schematics and data to illustrate the functioning and performance of equipment Provides equipment rating forms and manufacturers data worked examples valuable shortcut methods and rules of thumb to demonstrate and support the design process Heavily illustrated with line drawings and schematics to aid understanding as well as graphs and tables to illustrate performance data

Bioprocess Engineering Principles Pauline M. Doran, 2013 The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine agriculture and environmental management This textbook presents the principles of bioprocess engineering in a way that is accessible to biological scientists

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