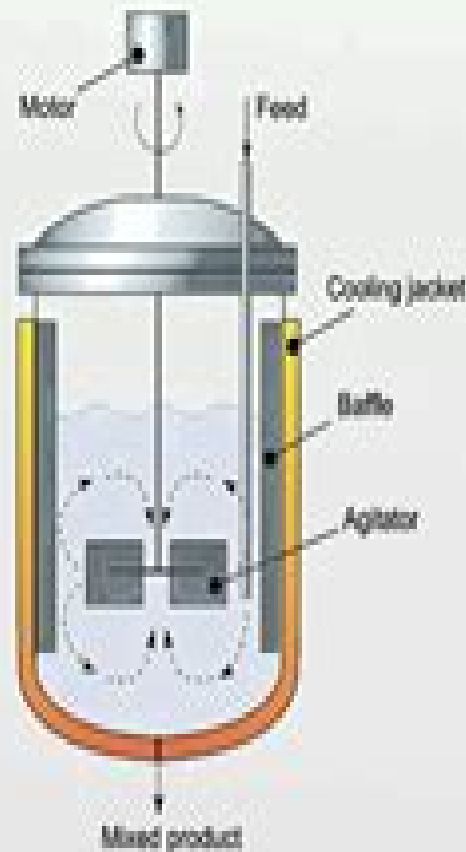


# Mixing (process engineering)



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# Mixing In The Process Industries

**R. McDonough**



## **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 in Process Industries** Harnby, 1992-11-01 *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 1 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 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 Processing Handbook** James G. Brennan,Alistair S. Grandison,2012-05-07 The second edition of the Food Processing Handbook presents a comprehensive review of technologies procedures and innovations in

food processing stressing topics vital to the food industry today and pinpointing the trends in future research and development Focusing on the technology involved this handbook describes the principles and the equipment used as well as the changes physical chemical microbiological and organoleptic that occur during food preservation In so doing the text covers in detail such techniques as post harvest handling thermal processing evaporation and dehydration freezing irradiation high pressure processing emerging technologies and packaging Separation and conversion operations widely used in the food industry are also covered as are the processes of baking extrusion and frying In addition it addresses current concerns about the safety of processed foods including HACCP systems traceability and hygienic design of plant and control of food processes as well as the impact of processing on the environment water and waste treatment lean manufacturing and the roles of nanotechnology and fermentation in food processing This two volume set is a must have for scientists and engineers involved in food manufacture research and development in both industry and academia as well as students of food related topics at undergraduate and postgraduate levels From Reviews on the First Edition This work should become a standard text for students of food technology and is worthy of a place on the bookshelf of anybody involved in the production of foods Journal of Dairy Technology August 2008 This work will serve well as an excellent course resource or reference as it has well written explanations for those new to the field and detailed equations for those needing greater depth CHOICE September 2006

**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

**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 **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 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 environmental standards **Ludwig's Applied Process Design for Chemical and Petrochemical Plants** A. Kayode Coker,2011-08-30 This complete revision of Applied Process Design for Chemical and Petrochemical Plants Volume 1 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 important supplemental mechanical and related data nomographs and charts Also included within are improved techniques and fundamental methodologies to guide the engineer in designing process equipment and applying chemical processes to

properly detailed equipment All three volumes of Applied Process Design for Chemical and Petrochemical Plants serve the practicing engineer by providing organized design procedures details on the equipment suitable for application selection and charts in readily usable form Process engineers designers and operators will find more chemical petrochemical plant design data in Volume 2 Third Edition which covers distillation and packed towers as well as material on azeotropes and ideal non ideal systems Volume 3 Third Edition which covers heat transfer refrigeration systems compression surge drums and mechanical drivers A Kayode Coker is Chairman of Chemical Process Engineering Technology department at Jubail Industrial College in Saudi Arabia He is both a chartered scientist and a chartered chemical engineer for more than 15 years and an author of Fortran Programs for Chemical Process Design Analysis and Simulation Gulf Publishing Co and Modeling of Chemical Kinetics and Reactor Design Butterworth Heinemann Provides improved design manuals for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics with new material on significant industry changes since 1995 *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

**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](http://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

Albright's Chemical Engineering Handbook Lyle Albright, 2008-11-20 From fundamentals to plant operations Albright's Chemical Engineering Handbook offers a thorough yet succinct guide to day to day methods and calculations used in chemical engineering applications Leaders from an exceptional diversity of specialties provide a clear review of basic information case examples and references to additional information They discuss essential principles calculations and key issues such as reaction engineering process control and design waste disposal and electrochemical and biochemical engineering The final chapters cover aspects of patents intellectual property communications and ethics that are most relevant to engineers

**Handbook of Food Powders** Bhesh Bhandari, Nidhi Bansal, Min Zhang, Pierre Schuck, 2023-11-11 Handbook of Food Powders Chemistry and Technology Second Edition covers current developments in food powder technology such as Microbial decontamination of food powders Gas and oil encapsulated powders and Plant based protein powders among other important topics Sections introduce processing and handling technologies for food powders focus on powder properties including surface composition rehydration and techniques to analyze the particle size of food powders and highlight specialty food powders such as dairy powders fruit and vegetable powders and coating foods with powders Edited by a team of international experts in the field this book continues to be the only quality reference on food powder technology available for the audiences of professionals in the food powder production and handling industries It is also ideal for development and quality control professionals in the food industry who use powders in foods and for researchers scientists and academics interested in the field Introduces six new chapters that incorporate the current developments in food powder technology Examines powder properties including surface composition shelf life and techniques used to examine particle size



Focuses on specialty powders such as dairy infant formulas powdered egg fruit and vegetable and culinary and specialty products

**PHARMACEUTICAL ENGINEERING** Mrs. Swathi Bagad, Miss. Spandhana Pasi, Rekha Tarasingh Rajput, Ms. Araf Mahefuzabibi H, Ms Ayesha Nisar Shaikh, Welcome to Fundamentals and Applications of Process Engineering in Pharmaceutical Plants From Fluid Flow to Corrosion Management This book offers a comprehensive overview of key process engineering concepts essential for pharmaceutical manufacturing We begin by exploring fundamental topics such as fluid flow size reduction heat transfer and distillation Subsequent sections cover drying mixing filtration and centrifugation technologies The final unit addresses the crucial aspects of materials selection and corrosion management in plant construction Designed for students professionals and researchers this book combines theoretical principles with practical applications to provide a clear understanding of process engineering in the pharmaceutical industry We hope it serves as a valuable resource for your studies and professional practice Thank you to everyone who supported and contributed to this work

**Development of Biopharmaceutical Drug-Device Products** Feroz Jameel, John W. Skoug, Robert R. Nesbitt, 2020-03-13 The biotechnology biopharmaceutical sector has tremendously grown which led to the invention of engineered antibodies such as Antibody Drug Conjugates ADCs Bispecific T cell engager BITES Dual Variable Domain DVD antibodies and fusion proteins that are currently being used as therapeutic agents for immunology oncology and other disease conditions Regulatory agencies have raised the bar for the development and manufacture of antibody based products expecting to see the use of Quality by Design QbD elements demonstrating an in depth understanding of product and process based on sound science Drug delivery systems have become an increasingly important part of the therapy and most biopharmaceuticals for self administration are being marketed as combination products A survey of the market indicates that there is a strong need for a new book that will provide one stop shopping for the latest information and knowledge of the scientific and engineering advances made over the last few years in the area of biopharmaceutical product development The new book entitled Development of Biopharmaceutical Drug Device Products is a reference text for scientists and engineers in the biopharmaceutical industry academia or regulatory agencies With insightful chapters from experts in the field this new book reviews first principles covers recent technological advancements and provides case studies and regulatory strategies relating to the development and manufacture of antibody based products It covers topics such as the importance of early preformulation studies during drug discovery to influence molecular selection for development formulation strategies for new modalities and the analytical techniques used to characterize them It also addresses important considerations for later stage development such as the development of robust formulations and processes including process engineering and modeling of manufacturing unit operations the design of analytical comparability studies and characterization of primary containers pre filled syringes and vials Finally the latter half of the book reviews key considerations to ensure the development and approval of a patient centered delivery system design This involves the evolving regulatory framework with perspectives from both the

US and EU industry experts the role of international standards design control risk management human factors and its importance in the product development and regulatory approval process as well as review of the risk based approach to bridging between devices used in clinical trials and the to be marketed device Finally case studies are provided throughout The typical readership would have biology and or engineering degrees and would include researchers scientific leaders industry specialists and technology developers working in the biopharmaceutical field 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

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