

MOTOR & REDUCER

Initial mechanic power generator, it supply adjusted RPM power of motor to impeller for each agitation purpose
Reducer methods: Geared, Cyclo, V-Velt and etc.

DRIVE SHAFT

Transfer power of motor & reducer to rotation parts

BEARING HOUSING

Bearing housing composed of bearing(T/R & Ball), bearing box and cover. Supports drive shaft.

SEAL

Mount special seal for each purpose depends on vessel type and liquid conditions

JECKET & COIL

For constant temperature in the chamber or tank, set up target temperature considering agitation efficiency and liquid type

FOOT BEARING

For preventing vibration of mixing shaft in case of long length, foot bearing mounted
Recommended to install if the shaft length is over 4 meters

SUPPORT FRAME

It is bridge for mechanic power transferring and consists of coupling, bearing unit and seal box.

CHAIN COUPRING & FLANGE COUPRING

MIXING SHAFT

Take over transferred RPM from motor & reducer to impeller
Calculating diameter of mixing shaft is very crucial point

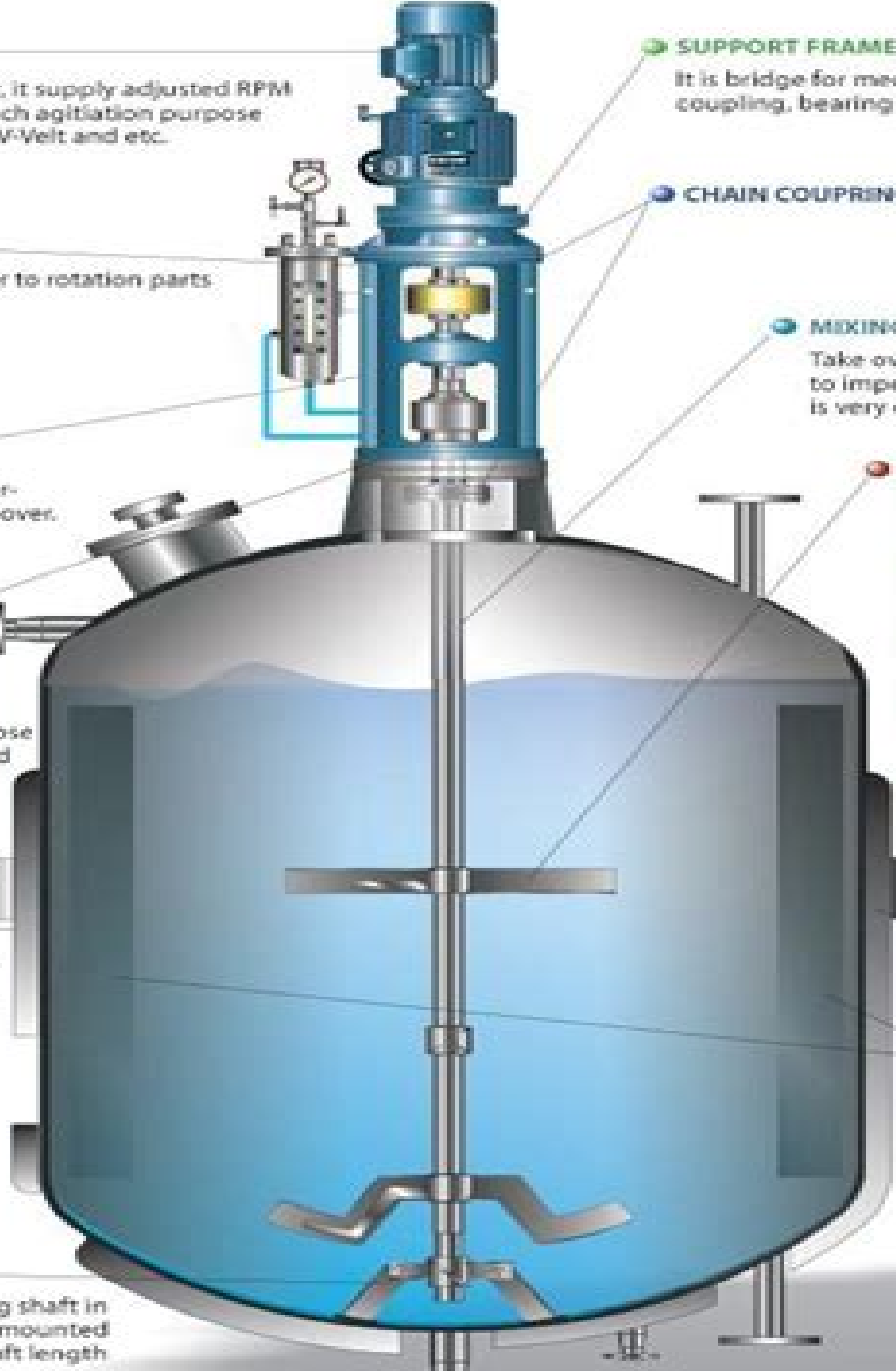
IMPELLER

- Propeller**
For middle or high speed for low viscosity mixing, melting and electric heat
- Pitched paddle**
For low or middle speed for middle viscosity mixing and melting
- Dispersed turbine**
For high speed for high viscosity liquid mixing and melting
- Horse anchor**
For low speed for high viscosity powder melting and preventing sedimentation
- Right turbine**
For middle or high speed for middle viscosity mixing, melting and gas suction

VESSEL

BAFFLE FLAT

For preventing concentric vortex flow in the circle tank



Agitator Design Guide

Daniel J. Hinrichs



Agitator Design Guide:

Handbook of Batch Process Design P.N. Sharratt, 2012-12-06 Batch processes are used to manufacture many fine organic chemicals and as such they can be considered to underpin much of the modern chemical industry. Despite widespread use and a consequent huge contribution to wealth creation, batch processes have attracted limited attention outside the user industries. Batch chemicals processing uses a number of core techniques and technologies such as scheduling and sequence control, agitation and batch filtration. The combination of these technologies with often complex chemistry, the multi-purpose nature of much of this type of plant, the distinctive safety and environmental issues and a fast-moving commercial environment makes the development of a successful batch process a considerable challenge for the chemist or engineer. The literature on the topics covered in this book is fragmented and often not easily accessible, so this handbook has been written to address this problem and to bring together design and process analysis methods in the core areas of batch process design. By combining the science and pragmatism required in the development of successful batch processes, this new book provides answers to real problems in an accessible and concise way. Written by an international team of authors drawn from industry, consulting and academia, this book is an essential part of the library of any chemist, technologist or engineer working on the development of new or existing batch processes. **Preliminary Chemical Engineering Plant Design** W.D.

Baasal, 1989-11-30 This reference covers both conventional and advanced methods for automatically controlling dynamic industrial processes. **Agitator Design Technology for Biofuels and Renewable Chemicals** Gregory T.

Benz, 2022-08-09 Agitator Design Technology for Biofuels and Renewable Chemicals: Comprehensive guide to the design, installation, selection and maintenance of agitators in the biofuels and renewable chemicals industries. Agitator Design Technology for Biofuels and Renewable Chemicals is a single source reference on all the major issues related to agitator design for biofuel, written with the intention of saving the reader time by avoiding the need to consult multiple references or sift through many pages of text to find what is needed for agitator design in specific industries. The work presents a brief introduction of basic principles and relevant theory, then goes on to cover the real world applications of these principles, including economic evaluations of alternatives as well as supplier evaluation principles. To aid in quick and seamless reader comprehension, each chapter has the symbols used in that chapter listed and defined at the end. Overall, the work is written more as a how-to book than an academic treatise. The highly qualified author has included plenty of brevity throughout the pages, with the hopes that readers go through the entire book as a single unit rather than just skimming an occasional page or chapter as is common with other resources in similar fields. Sample topics covered in the work include: Avoiding common problems such as using impeller diameters and speeds that would not result in even minimal solids suspension or liquid motion; Choosing the right impellers for the job; understanding how power draw and pumping are calculated; and becoming familiar with biofuel biomass agitator sizing guidelines. The principles and limitations of scale-up and the most common non

Newtonian rheology applicable to biofuel applications Designing lab tests and scale up cellulosic hydrolysis agitation plus the uses and limitations of Computational Fluid Dynamics CFD As an easy to read and completely comprehensive resource to the subject Agitator Design Technology for Biofuels and Renewable Chemicals is immensely valuable for professionals tasked with selecting agitation equipment or troubleshooting existing equipment as well as those involved in planning activities and allocating resources related to project management **Mineral Processing Plant Design, Practice, and Control** Andrew L. Mular,Doug N. Halbe,Derek John Barratt,2002 Annotation Based on 138 proceedings papers from October 2002 this broad reference will become the new standard text for colleges and will become a must for engineers consultants suppliers manufacturers

The Industrial Wastewater Systems Handbook Ralph L. Stephenson,James B. Blackburn, Jr.,1997-10-23 From explanations of laws and regulations to hands on design and operation the Handbook has it covered

Slurry Handling N.P. Brown,N.I. Heywood,1991-12-31 *Agitator Design for Gas-Liquid Fermenters and Bioreactors* Gregory T. Benz,2021-04-13 AGITATOR DESIGN FOR GAS LIQUID FERMENTERS AND BIOREACTORS Explore the basic principles and concepts of the design of agitation systems for fermenters and bioreactors Agitator Design for Gas Liquid Fermenters and Bioreactors delivers a concise treatment and explanation of how to design mechanically sound agitation systems that will perform the agitation process function efficiently and economically The book covers agitator fundamentals impeller systems optimum power and air flow at peak mass transfer calculations optimizing operation for minimum energy per batch heat transfer surfaces and calculations shaft seal considerations mounting methods mechanical design and vendor evaluation The accomplished author has created a practical and hands on tool that discusses the subject of agitation systems from first principles all the way to implementation in the real world Step by step processes are included throughout the book to assist engineers chemists and other scientists in the design construction installation and maintenance of these systems Readers will also benefit from the inclusion of A thorough introduction to the design of gas liquid fermenters and bioreactors An exploration of agitator fundamentals impeller systems optimum power and air flow at peak mass transfer calculations A discussion of how to optimize operation for minimum energy per batch Step by step processes to assist engineers chemists and scientists An examination of heat transfer surfaces and calculations shaft seal considerations mounting methods and mechanical design Perfect for chemical engineers mechanical engineers process engineers chemists and materials scientists Agitator Design for Gas Liquid Fermenters and Bioreactors will also earn a place in the libraries of pharmaceutical scientists seeking a one stop resource for designing mechanically sound agitation systems *Lees' Loss Prevention in the Process Industries* Frank Lees,2005-01-25 Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process storage or transport Plants have become larger and are often situated in or close to densely populated areas Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough Bhopal Chernobyl Three Mile Island the Phillips 66 incident and Piper Alpha

to name but a few The field of Loss Prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead Frank Lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world s chief experts in this field Sam Mannan is professor of chemical engineering at Texas A principles practice codes standards data and references needed by those practicing in the field *Inspector's Guide* Daniel J. Hinrichs,1979 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 1 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 Draft Acid Rock Drainage Technical Guide British Columbia Acid Mine Drainage Task Force,British Columbia. Ministry of Energy, Mines and Petroleum Resources,Canada/British Columbia Mineral Development Agreement,Gormely Process Engineering,Norecol Environmental Consultants,Steffen Robertson and Kirsten (B.C.) Inc,1989 Guide to the process of acid rock drainage ARD along with guidance and recommendations in the application of state of the art technology in prediction control and monitoring of ARD Recommendations do not necessarily apply only to coal mining but to any drainage which occurs as a result of natural oxidation of sulphide materials contained in rock which is exposed to air and water

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 **Fermentation and Biochemical Engineering Handbook** Celeste M. Todaro,Henry C.

Vogel,2014-03-27 A complete reference for fermentation engineers engaged in commercial chemical and pharmaceutical production Fermentation and Biochemical Engineering Handbook emphasizes the operation development and design of manufacturing processes that use fermentation separation and purification techniques Contributing authors from companies such as Merck Eli Lilly Amgen and Bristol Myers Squibb highlight the practical aspects of the processes data collection scale up parameters equipment selection troubleshooting and more They also provide relevant perspectives for the different industry sectors utilizing fermentation techniques including chemical pharmaceutical food and biofuels New material in the third edition covers topics relevant to modern recombinant cell fermentation mammalian cell culture and biorefinery ensuring that the book will remain applicable around the globe It uniquely demonstrates the relationships between the synthetic processes for small molecules such as active ingredients drugs and chemicals and the biotechnology of protein

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A Guide to the Design and Selection of Agitator Drives G. J. Pollard,1984 **Interagency Retardant Base Planning Guide** ,1995 Chemical Engineering Equipment Buyers' Guide ,1986-08 **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 NBS Special Publication ,1975 *Practical Guide to Vegetable Oil Processing* Monoj Gupta,2017-02-16

Practical Guide to Vegetable Oil Processing Second Edition includes an up to date summary of the basic principles of edible oil refining processing and deodorizing serving as a hands on training manual for chemists engineers and managers new to the industry The 15 chapter book includes current information on the bleaching of green oils and coconut oil quality requirements for frying oil applications and more Written for the non chemist new to the industry the book makes it simple to

apply these important concepts for the edible oil industry Provides insights to the challenges of bleaching very green oils Includes new deodorizer designs and performance measures Offers insights on frying oil quality management Simple and easy to read language **Guidelines for Safe Automation of Chemical Processes** CCPS (Center for Chemical Process Safety),2010-09-14 Increased automation reduces the potential for operator error but introduces the possibility of new types of errors in design and maintenance This book provides designers and operators of chemical process facilities with a general philosophy and approach to safe automation including independent layers of safety

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Table of Contents Agitator Design Guide

1. Understanding the eBook Agitator Design Guide
 - The Rise of Digital Reading Agitator Design Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Agitator Design Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Agitator Design Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Agitator Design Guide
 - Personalized Recommendations
 - Agitator Design Guide User Reviews and Ratings
 - Agitator Design Guide and Bestseller Lists
5. Accessing Agitator Design Guide Free and Paid eBooks
 - Agitator Design Guide Public Domain eBooks
 - Agitator Design Guide eBook Subscription Services
 - Agitator Design Guide Budget-Friendly Options
6. Navigating Agitator Design Guide eBook Formats

- ePub, PDF, MOBI, and More
- Agitator Design Guide Compatibility with Devices
- Agitator Design Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Agitator Design Guide
 - Highlighting and Note-Taking Agitator Design Guide
 - Interactive Elements Agitator Design Guide
- 8. Staying Engaged with Agitator Design Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Agitator Design Guide
- 9. Balancing eBooks and Physical Books Agitator Design Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Agitator Design Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Agitator Design Guide
 - Setting Reading Goals Agitator Design Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Agitator Design Guide
 - Fact-Checking eBook Content of Agitator Design Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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