



Process Pumps

Argonne National Laboratory



Process Pumps:

Pumps for Chemical Processing J.T. McGuire, 2020-07-24 A reference for the chemical engineer on the application selection construction procurement installation operation and maintenance of the three basic types of pumps used in chemical processing centrifugal rotary and reciprocating Emphasizes aspects that cause practical operating problems

Process Machinery Fred K. Geitner, Ronald G. Eierman, 2021-11-22 The authors describe a risk based approach to commissioning and start up of process machinery Techniques are provided to quantify the safety risks and risks associated with machinery failure and estimated impact on start up schedules Examples of defining and quantifying the risks based on the extent of the commissioning effort as a function of criticality of the machinery are offered Also included are numerous directly applicable checklists

PROCESS PUMPS CATALOGUE A. PROCESS PUMPS (AUSTRALIA) PTY LTD., *Pump User's Handbook* Heinz P. Bloch, Allan R. Budris, 2004-07-13 A valuable reference Pump User's Handbook Life Extension explains just how and why the best of class pump users are consistently achieving superior run lengths low maintenance expenditures and unexcelled safety and reliability The book conveys in detail what must be done to rapidly accomplish best of class performance and low life cycle cost Simply put the text explains what exactly needs to be done if a facility wants to progress from being a one two or three year pump MTBF plant and wishes to join the leading money making facilities that today achieve a demonstrated pump MTBF of 8 6 years Written by two practicing engineers whose combined 80 year working career included all conceivable facets of pumping technology book provides experience based details data guidance direction explanations and firm recommendations Implementing what this text explains will allow a plant to move from yesterday's demonstrably unprofitable and costly repair focus to tomorrow's absolutely necessary reliability focus

Centrifugal Pump Handbook Sulzer Sulzer Pumps, 2010-09-23 This long awaited new edition is the complete reference for engineers and designers working on pump design and development or using centrifugal pumps in the field This authoritative guide has been developed with access to the technical expertise of the leading centrifugal pump developer Sulzer Pumps In addition to providing the most comprehensive centrifugal pump theory and design reference with detailed material on cavitation erosion selection of materials rotor vibration behavior and forces acting on pumps the handbook also covers key pumping applications topics and operational issues including operating performance in various types of circuitry drives and acceptance testing Enables readers to understand specify and utilise centrifugal pumps more effectively drawing on the industry leading experience of Sulzer Pumps one of the world's major centrifugal pump developers Covers theory design and operation with an emphasis on providing first class quality and efficiency solutions for high capital outlay pump plant users Updated to cover the latest design and technology developments including applications test and reliability procedures cavitation erosion selection of materials rotor vibration behaviour and operating performance in various types of circuitry

Pump Users Handbook R. Rayner, 1995-12-12 This handbook places emphasis on the importance of correct

interpretation of pumping requirements both by the user and the supplier Completely reworked to incorporate the very latest in pumping technology this practical handbook will enable you to understand the principles of pumping hydraulics and fluids and define the various criteria necessary for pump and ancillary selection The Pump Users Handbook will prove an invaluable aid in ordering pump equipment and in the recognition of fundamental operational problems *Pump Wisdom* Heinz P. Bloch, 2011-04-18 Learn all the basics about pumps in one place Clearly written by an ace consultant this manual for operators and specialists in the petroleum industry gives readers a concise overview of the mechanics of various pumps and reviews the specifications to be considered before a pump is purchased and installed The straight forward text explains pump hydraulics without need of involved mathematics and provides expert advice on installing centrifugal pumps in process plants The book also emphasizes the mechanical aspects of pumps as it delves into misunderstandings and oversights on bearings seals impeller trimming lubricant application lubricant types and much more **Centrifugal Pumps** Johann Friedrich Gülich, 2007-10-25 An up to date and unparalleled in depth treatment of all kinds of flow phenomena encountered in centrifugal pumps is given including the complex interactions of fluid flow with vibrations and wear of materials The scope includes all aspects of hydraulic design 3D flow phenomena and partload operation cavitation numerical flow calculations hydraulic forces pressure pulsations noise pump vibrations notably bearing housing vibrations diagnostics and remedies pipe vibrations pump characteristics and pump operation the effects of highly viscous flows pumping of gas liquid mixtures hydraulic transport of solids fatigue damage to impellers or diffusers material selection under the aspects of fatigue corrosion erosion corrosion or hydro abrasive wear pump selection and hydraulic quality criteria Information on the methods and procedures for the various calculations and failure diagnostics discussed in the text are presented in tables which may be considered almost unique in the open literature This comprehensive handbook focuses on practical application in the industry and is free of mathematical or theoretical ballast In order to find viable solutions in practice the physical mechanisms involved must be thoroughly understood The book is focused on fostering this understanding which will benefit the pump engineer in industry as well as academia and students *How to Select the Right Centrifugal Pump* Robert X. Perez, 2015-07-30 Choosing a centrifugal pump from the countless options available can be daunting but someone has to make the decision Many factors such as the required flow differential pressure suction conditions etc must be weighed against the capital costs and cost of energy for the pumps considered To determine the right pump you must consider the overall cost of ownership which includes capital cost operating costs and maintenance cost What good is a low cost pump if it is inefficient or if is costly to maintain The selection methodology offered in this book focuses mainly on hydraulic design considerations but it also touches on mechanical design details Analyzing basic pump hydraulic parameters allows you to quickly determine if a centrifugal pump makes sense for your particular application If you do decide a centrifugal pump will work for your application then you need to be able to evaluate the various bids returned by pump manufacturers A complete

chapter is devoted to tabulating quotes from pump manufacturers in order to properly evaluate their bids and select the best overall option *Encyclopedia of Chemical Processing and Design* JohnJ. McKettaJr,2017-11-22 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries **Pump Characteristics and Applications** Michael Volk,2013-10-21 Providing a wealth of information on pumps and pump systems Pump Characteristics and Applications Third Edition details how pump equipment is selected sized operated maintained and repaired The book identifies the key components of pumps and pump accessories introduces the basics of pump and system hydraulics as well as more advanced hydrau **Pump Wisdom** Robert X. Perez,Heinz P. Bloch,2022-03-22 Pump Wisdom Explore key facets of centrifugal pump ownership installation operation and troubleshooting The Second Edition of Pump Wisdom Essential Centrifugal Pump Knowledge for Operators and Specialists delivers a concise explanation of how pumps function the design specifications that must be considered before purchasing a pump and current best practices in lubrication and mechanical seals Readers will encounter new startup and surveillance tips for pump operators as well as repair versus replacement or upgrade considerations for maintenance decision makers new condition monitoring guidance for centrifugal pumps and expanded coverage of operator best practices This latest edition of Pump Wisdom Essential Centrifugal Pump Knowledge for Operators and Specialists includes expanded coverage of areas critical to achieving best in class pump reliability including commonly encountered issues and easy to follow instructions for getting centrifugal pumps to operate safely and reliably This book also provides Comprehensible and accessible explanations of pump hydraulics Simple explorations of the mechanical aspects of pumps with coverage of bearings seals impeller trimming lubricant application and more Safety tips and instructions for centrifugal pumps Perfect for chemical petroleum and mechanical engineers Pump Wisdom Essential Centrifugal Pump Knowledge for Operators and Specialists is also an ideal resource for operators managers purchasing agents machinists reliability technicians and maintenance workers in water and wastewater plants Applied Process Design for Chemical and Petrochemical Plants: Volume 1 Ernest E. Ludwig,1995-02-23 This expanded edition introduces new design methods and is packed with examples design charts tables and performance diagrams to add to the practical understanding of how selected equipment can be expected to perform in the process situation A major addition is the comprehensive chapter on process safety design considerations ranging from new devices and components to updated venting requirements for low pressure storage tanks to the latest NFPA methods for sizing rupture disks and bursting panels and more Completely revised and updated throughout The definitive guide for process engineers and designers Covers a complete range of basic day to day operation topics Pump Technology A. G. Coombs,2013-12-14 *Lees' Loss Prevention in the Process Industries* Frank Lees,2005-01-10 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

PROCESS PUMPS CATALOGUE
N. PROCESS PUMPS (AUSTRALIA) PTY LTD., Handbook of Vacuum Technology Karl Jousten, 2016-07-05 This comprehensive standard work has been updated to remain an important resource for all those needing detailed knowledge of the theory and applications of vacuum technology The text covers the existing knowledge on all aspects of vacuum science and technology ranging from fundamentals to components and operating systems It features many numerical examples and illustrations to help visualize the theoretical issues while the chapters are carefully cross linked and coherent symbols and notations are used throughout the book The whole is rounded off by a user friendly appendix of conversion tables mathematical tools material related data overviews of processes and techniques equipment related data national and international standards guidelines and much more As a result engineers technicians and scientists will be able to develop and work successfully with the equipment and environment found in a vacuum

A Users Guide to Vacuum Technology John F. O'Hanlon, Timothy A. Gessert, 2023-10-31 A USERS GUIDE TO VACUUM TECHNOLOGY Choose and understand the vacuum technology that fits your project s needs with this indispensable guide Vacuum technology is used to provide process environments for other kinds of engineering technology making it an unsung cornerstone of hundreds of projects incorporating analysis research and development manufacturing and more Since it is very often a secondary technology users primarily interested in processes incorporating it will frequently only encounter vacuum technology when purchasing or troubleshooting There is an urgent need for a guide to vacuum technology made with these users in mind For decades A User s Guide to Vacuum Technology has met this need with a user focused introduction to vacuum technology as it is

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