

A Step-by-Step Approach to Pump Selection

Consider pipe sizing and motor power requirements before picking your pump.

by [Lev Nelik](#)

Pumping Machinery LLC, P&S Editorial Advisory Board

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Unless a brand new plant is being designed, users decide to replace a pump because of its age and wear or persistent reliability issues.

Plant engineers typically spend their time with the process to make sure machinery is working, water is flowing, power is produced, lights are up and no environmental problems are developing. They are not, as a rule, experts on any particular type of machinery.

They are basically generalists, having learned to rely on qualified suppliers, who are experts within their particular niche (pumps, centrifuges, boilers, generators, etc.). When a pump fails, it is usually replaced with a new one, without much analysis or discussion. If it continues to fail frequently, a new supplier is approached for a better, more reliable pump.

Occasionally, a relatively minor modification to the process, like an addition of a cooling (or heating) piping loop, for example, is needed. It may not be a particularly complex system, and hiring major design contractors may not be economical for such a small project. Yet, it might still be beyond the expertise of the plant engineers, maintenance and operating personnel.

Process Pumps Selection A Systems Approach

Gavin Towler, Ray Sinnott



Process Pump Selection A Systems Approach:

Process Pump Selection John Davidson, Otto von Bertele, 2000 This fully revised and up dated Second Edition of the highly successful Process Pump Selection eases the daunting task that faces a process industries engineer employed in the process industries and responsible for the specification selection and purchase of process equipment This volume provides essential guidelines based on the operational experience of large numbers of plumbing installations over many years on a diverse range of duties and process plants Process Pump Selection A Systems Approach will be an invaluable source of information for engineers and others working for user organizations in the process and service sector industries It will not only be of great assistance to engineers faced with the specification selection and procurement of pumps but will also provide pump manufacturers with a great insight into the problems facing pump users and plant designers **COMPLETE CONTENTS** Pump specification and selection Positive displacement pumps reciprocating metering Positive displacement pumps reciprocating special purpose Positive displacement pumps rotary Centrifugal pumps Centrifugal pumps special purpose and multistage Common points Sealing considerations Pump and system combined Appendices Index **Process Pump Selection** John Davidson, 1986 *Pumps for Chemical Processing* J.T. McGuire, 2020-07-25 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

Chemical Engineering Design Gavin Towler, Ray Sinnott, 2007-11-26 Bottom line For a holistic view of chemical engineering design this book provides as much if not more than any other book available on the topic Extract from Chemical Engineering Resources review Chemical Engineering Design is one of the best known and widely adopted texts available for students of chemical engineering It deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout this US edition has been specifically developed for the US market It covers the latest aspects of process design operations safety loss prevention and equipment selection among others Comprehensive in coverage exhaustive in detail it is supported by extensive problems and a separate solutions manual for adopting tutors and lecturers In addition the book is widely used by professions as a day to day reference Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses Teaches commercial engineering tools for simulation and costing Comprehensive coverage of unit operations design and economics Strong emphasis on HSE issues codes and standards including API ASME and ISA design codes and ANSI standards 108 realistic commercial design projects from diverse industries **Chemical Engineering Design** Ray Sinnott, Gavin Towler, 2019-05-26 Chemical Engineering Design SI Edition is one of the best known and most widely used textbooks available for students of chemical engineering The enduring hallmarks of this classic book are its scope and practical emphasis which make it particularly popular with instructors and students who appreciate its relevance and clarity This new

edition provides coverage of the latest aspects of process design operations safety loss prevention equipment selection and much more including updates on plant and equipment costs regulations and technical standards Includes new content covering food pharmaceutical and biological processes and the unit operations commonly used Features expanded coverage on the design of reactors Provides updates on plant and equipment costs regulations and technical standards Integrates coverage with Honeywell's UniSim software for process design and simulation Includes online access to Engineering's Cleopatra cost estimating software

Rotodynamic Pump Design R. K. Turton, 1994-01-13 This book provides a brief but thorough account of the basic principles of good pump design It presents the basic hydraulic equations including cavitation and discusses the principles that underlie the correct performance of centrifugal pumps and axial machines giving two design examples It then outlines analytical methods for flow calculations including special techniques used in computer aided design Shafts bearings seals and drives design for difficult fluids and codes and practices are treated in the last three chapters

Encyclopedia of Chemical Processing and Design John J. McKetta Jr, 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

Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications Juma Haydary, 2019-01-16 A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software A comprehensive and practical resource the text uses both Aspen Plus and Aspen Hysys simulation software The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors separators and heat exchangers The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used In addition to aid in comprehension solutions to examples of real problems are included The final section covers plant design and simulation of processes using nonconventional components This important resource Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical principles of chemical process and design with real world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids oil blends polymers and electrolytes Presents examples that are solved using a new version of Aspen software ASPEN One 9 Written for students and academics in the field of process design Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software

Centrifugal Pumps IMechE (Institution of Mechanical Engineers), Fluid Machinery

Group Staff,2004-12-27 The Second International Symposium on Centrifugal Pumps The State of the Art and New Developments is the latest in a successful and prestigious series of IMechE Event Publications Experts in the field of pumps and pumping have come together to produce these unique papers which cover reducing costs by using less components and better seals bearings and couplings increasing and maintaining pump efficiency using high speed super synchronous motors and improving safety Complete Contents Closed valve flow field investigation using computational fluid dynamics A new class of seal less pump with synchronous integrated canned magnetic drive Development of a new generation of customer focused water pumps Improving pump reliability through its secondary components Variable medium speed pumps combine superior performance with reduced life cycle cost LCC The Weir VSR 2100 A new concept in high pressure pumping High speed pumps using integrated motor technology Derby transfer pumping station inception to commissioning State of the art boiler feed pump upgrade for Ratcliffe Power Station Centrifugal Pumps will be invaluable reading to those involved with pumps and pumping including makers and users component suppliers refurbishers contractors consultants and researchers

Plant Engineer's Reference Book DENNIS A SNOW,2001-12-17 A plant engineer is responsible for a wide range of industrial activities and may work in any industry The Plant Engineer s Reference Book 2nd Edition is a reference work designed to provide a primary source of information for the plant engineer Subjects include the selection of a suitable site for a factory and provision of basic facilities including boilers electrical systems water HVAC systems pumping systems and floors and finishes Detailed chapters deal with basic issues such as lubrication corrosion energy conservation maintenance and materials handling as well as environmental considerations insurance matters and financial concerns The editor Dennis Snow has experience of a wide range of operations in the UK Europe the USA and elsewhere in the world Produced with the backing of the Institution of Plant Engineers the Plant Engineer s Reference Book 2nd Edition provides complete coverage of the information needed by plant engineers in any industry worldwide Wide range of information will prove to be use to engineers in any industry Covers all the topics necessary to design and develop an engineering plant Will help engineers in industry deal with practical problems in a variety of situations *Wicked Solutions : A Systems Approach to Complex Problems* Bob Williams,Sjon van 't Hof,2016-01-29 Wicked problems are complex ill structured human problem situations This book will help you design an inquiry and intervention in such messy wicked situations It does so by guiding you through the steps and stages of a systemic process that addresses your own wicked problem Limited references to systems theory and history acquaint you with the key principles to work wicked problems on your own The focus of this book on systems thinking is on a critically important question that often goes unanswered Where do I start It also provides numerous tips and tricks to keep you on the right track You will find that the systems approaches in this book will not only help you to address wicked problems yourselves but also that it will give you a basic grasp of what is involved in other systems methods Few other investments in your intellectual toolbox could claim the same *Applications and Theory of Analytic Hierarchy Process*

Fabio De Felice, Antonella Petrillo, Thomas Saaty, 2016-08-31 The purpose of this book is to provide an introduction to the theory and applications in the field of decision making especially focused on Analytic Hierarchy Process a structured technique for organizing and analyzing complex decisions based on mathematics and psychology It was developed by Prof Thomas L Saaty in the 1970s and has been extensively studied and refined since then The idea of the book is to expand the reader s consciousness to deal with problems regarding the decision making This book presents some application examples of Analytic Hierarchy It contains original research and application chapters from different perspectives and covers different areas such as supply chain environmental engineering safety and social issues This book is intended to be a useful resource for anyone who deals with decision making problems

Integrated Design and Simulation of Chemical Processes

Alexandre C. Dimian, Costin Sorin Bildea, Anton A. Kiss, 2014-09-18 This comprehensive work shows how to design and develop innovative optimal and sustainable chemical processes by applying the principles of process systems engineering leading to integrated sustainable processes with green attributes Generic systematic methods are employed supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models New to the second edition are chapters on product design and batch processes with applications in specialty chemicals process intensification methods for designing compact equipment with high energetic efficiency plantwide control for managing the key factors affecting the plant dynamics and operation health safety and environment issues as well as sustainability analysis for achieving high environmental performance All chapters are completely rewritten or have been revised This new edition is suitable as teaching material for Chemical Process and Product Design courses for graduate MSc students being compatible with academic requirements world wide The inclusion of the newest design methods will be of great value to professional chemical engineers Systematic approach to developing innovative and sustainable chemical processes Presents generic principles of process simulation for analysis creation and assessment Emphasis on sustainable development for the future of process industries

Stan Shiels on Centrifugal Pumps: Collected Articles from 'World Pumps' Magazine Stan Shiels, 2004-07 Centrifugal pump specification and selection a systems approach centrifugal pump specification and selection a systems approach part I II hidden dangers in centrifugal pump specification part I II the risks of parallel operation the B K factor in mechanical seal life the importance of running clearances when two pumps are cheaper than one cost factors when considering pumping rate and line size which is worse specifying too much head or too much flow causes of intermittent and chronic cavitation locating the greatest centrifugal pump energy savings how centrifugal pump hydraulics affect rolling element bearing life importance of proper review in pump specification protecting centrifugal pumps at low flow rates motor trip predicting the unforeseen disaster trimming impeller to save energy and increase flow rate applying mechanical seals to centrifugal pumps understanding the essentials of centrifugal pump reliability application of rolling element bearings

Pumping Machinery Theory and Practice Hassan M. Badr, Wael H. Ahmed, 2015-02-16 Pumping Machinery Theory and

Practice comprehensively covers the theoretical foundation and applications of pumping machinery Key features Covers characteristics of centrifugal pumps axial flow pumps and displacement pumps Considers pumping machinery performance and operational type problems Covers advanced topics in pumping machinery including multiphase flow principles and two and three phase flow pumping systems Covers different methods of flow rate control and relevance to machine efficiency and energy consumption Covers different methods of flow rate control and relevance to machine efficiency and energy consumption

Fundamentals and Applications of Chemical Engineering Dr. Kirubanandan Shanmugam,2025-09-25 It is with great happiness that I would like to acknowledge a great deal of people that get helped me extremely through the entire difficult challenging but a rewarding and interesting path towards some sort of Edited Book without having their help and support none of this work could have been possible

Handbook of Pumps and Pumping Brian Nesbitt,2006-10-18 Written by an experienced engineer this book contains practical information on all aspects of pumps including classifications materials seals installation commissioning and maintenance In addition you will find essential information on units manufacturers and suppliers worldwide providing a unique reference for your desk R D lab maintenance shop or library Includes maintenance techniques helping you get the optimal performance out of your pump and reducing maintenance costs Will help you to understand seals couplings and ancillary equipment ensuring systems are set up properly to save time and money Provides useful contacts for manufacturers and suppliers who specialise in pumps pumping and ancillary equipment

Rules of Thumb for Chemical Engineers Stephen Hall,2017-10-30 Rules of Thumb for Chemical Engineers Sixth Edition is the most complete guide for chemical and process engineers who need reliable and authoritative solutions to on the job problems The text is comprehensively revised and updated with new data and formulas The book helps solve process design problems quickly accurately and safely with hundreds of common sense techniques shortcuts and calculations Its concise sections detail the steps needed to answer critical design questions and challenges The book discusses physical properties for proprietary materials pharmaceutical and biopharmaceutical sector heuristics process design closed loop heat transfer systems heat exchangers packed columns and structured packings This book will help you save time you no longer have to spend on theory or derivations improve accuracy by exploiting well tested and accepted methods culled from industry experts and save money by reducing reliance on consultants The book brings together solutions information and work arounds from engineers in the process industry Includes new chapters on biotechnology and filtration Incorporates additional tables with typical values and new calculations Features supporting data for selecting and specifying heat transfer equipment

Computational and Experimental Simulations in Engineering Kun Zhou,2024-08-20 This book gathers the latest advances innovations and applications in the field of computational engineering as presented by leading international researchers and engineers at the 30th International Conference on Computational bioengineering geotechnical engineering offshore multi scale structural integrity materials design and computer modeling methods in engineering The contributions which were

selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations

Engineers' Guide to Rotating Equipment Clifford Matthews, 2002-02-15 This handy reference source is a companion volume to the author's *Engineers Guide to Pressure Equipment*. Heavily illustrated and containing a wealth of useful data it offers inspectors, engineers, operatives and those maintaining engineering equipment a one stop everyday package of information. It will be particularly helpful in guiding users through the legislation that regulates this field. Legislation has very important implications for works inspection and in service inspection of mechanical plant. An *Engineers Guide to Rotating Equipment* is packed with information, technical data, figures, tables and checklists. Details of relevant technical standards, the legislation and Accepted Codes of Practice (AcoPs) published by various bodies such as HSE and SAFed are provided, in addition to a number of website addresses and contact details.

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