

Operators Guide To Centrifugal Pumps What Every Reliability-minded Operator Needs To Know

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Buy Operator's Guide to Centrifugal Pumps: What Every Reliability-Minded Operator Needs to Know by Perez, Robert X. (ISBN: 9781436339841) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

~~Operator's Guide to Centrifugal Pumps: What Every ...~~

Operator's Guide to API Flush Plans, Illustrated Glossary of Centrifugal Pump Terms, Glossary of Electric Motor Terms, and; Useful Centrifugal Pump Formulas; This multi-faceted book can be used as a self-paced, self-taught short course or as a companion to a "live" prepared short course for both inexperienced and seasoned operators.

~~Book Review: Operator's Guide to Centrifugal Pumps~~

One training topic essential to every operators education is that of centrifugal pumping technology. The ever-present centrifugal pump is one of the workhorses of the process world, tirelessly moving fluids, ranging from the innocuous to the toxic and flammable, from one stage of the process to the next.

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The second goal is to provide student challenge exams for those wanting to master the material in Operator's Guide to Centrifugal Pumps. The first chapter covers how process operators can be better utilized to improve pump reliability. The importance of operating training and commissioning will be covered in the next two chapters.

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One training topic essential to every operators education is that of centrifugal pumping technology. The ever-present centrifugal pump is one of the workhorses of the process world, tirelessly moving fluids, ranging from the innocuous to the toxic and flammable, from one stage of the process to the next.

Many readers have found Operator's Guide to Centrifugal Pumps (Xlibris, 2008) to be a valuable training resource for process operators. Volume 2 provides additional training material in the form of student challenge exams and additional exposure to reliability topics. Volume 2 has two goals: The first goal is to continue to build on the general theme of pump reliability in process facilitates. The second goal is to provide student challenge exams for those wanting to master the material in Operator's Guide to Centrifugal Pumps. The first chapter covers how process operators can be better utilized to improve pump reliability. The importance of operating training and commissioning will be covered in the next two chapters. In the final chapter, a methodology for addressing troublesome centrifugal pumps is presented. A majority of the book is comprised of three (3) different student challenge exams are included in Volume 2. Answers to all the exam questions are provided along with where the answers can be found in the Operator's Guide. There are a total of 150 challenge questions with their answers.

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We work in an industry where economic success is heavily dependent on the collective performance of our processing equipment and their operators. Without highly trained and confident operators we can never hope to realize the full potential of our complex processes. Formal and informal training must be provided regularly if continuous process and reliability gains are to be expected. There are no shortcuts to operational excellence. One

training topic essential to every operators education is that of centrifugal pumping technology. The ever-present centrifugal pump is one of the workhorses of the process world, tirelessly moving fluids, ranging from the innocuous to the toxic and flammable, from one stage of the process to the next. We would be hard pressed to find a processing unit inside our complexes without a few of these in service. Their sheer numbers and variety can make their mastery a challenge. This book was specifically written for process operators who regularly deal with centrifugal pumps, addressing principally those variables and factors under their control, while limiting design theory and mathematics to a minimum. The following topics and content are covered: 1. Importance of equipment reliability and what role operators play in this mission. 2. Centrifugal pump operating characteristics 3. Mechanical seals and their related seal flush plans 4. What operators should know about electric motors 5. Lubrication basics 6. Troubleshooting basics 7. How to start a pump reliability program By the end of the book, the reader should possess a clear understanding of how to operate and monitor their pumps. Three handy references are also contained in the book to answer questions as they arise in the field: 1) Operators Guide to API Flush Plans, 2) Illustrated Glossary of Centrifugal Pump Terms, 3) Glossary of Electric Motor Terms, and 4) Useful Centrifugal Pump Formulas. This book can be used as a self-paced, self-taught short course or as a companion to a live prepared short course for both inexperienced and seasoned operators. It can also serve as a handy field guide after completion of the course. The ultimate mission of this book is to provide the latest generation of operators a body of knowledge that is relevant, complete, and practical in an industrial setting for years to come.

When installed and operated properly, general purpose steam turbines are reliable and tend to be forgotten, i.e., out of sound and out of mind. But, they can be sleeping giants that can result in major headaches if ignored. Three real steam turbine undesirable consequences that immediately come to mind are: Injury and secondary damage due to an overspeed failure. An overspeed failure on a big steam or gas turbine is one of the most frightening of industrial accidents. The high cost of an extensive overhaul due to an undetected component failure. A major steam turbine repair can cost ten or more times that of a garden variety centrifugal pump repair. Costly production losses due an extended outage if the driven pump or compressor train is unspared. The value of lost production can quickly exceed repair costs. A major goal of this book is to provide readers with detailed operating procedure aimed at reducing these risks to minimal levels. Start-ups are complicated by the fact that operators must deal with numerous start-up scenarios, such as: Commissioning a newly installed steam turbine Starting ups after a major steam turbine repair Starting up a proven steam turbine after an outage Overspeed trip testing It is not enough to simply have a set of procedures in the control room for reference. To be effective, operating procedures must be clearly written down, taught, and practiced—until they become habit.

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.

Specifically for the pump user, this book concentrates on the identification and solution of problems associated with existing centrifugal pumps. It gives specific examples on how to modify pump performance for increased efficiency and better quality control, which turn into long-term cost savings. Some basic theory is included to give the reader greater understanding of the problems being encountered and attacked.

Every operator who is responsible for monitoring critical rotating equipment will greatly benefit from this handy reference book. The goal of this book is to present proven techniques that will enable rookie and veteran operators alike to detect problems early and, we hope, eliminate major outages and/or maintenance costs. To achieve this goal we shall explain the basics of lubrication systems, bearings, drivers, seals and sealing systems, for centrifugal and positive displacement pumps as well as turbines, centrifugal compressors and reciprocating compressors. We will then present common sense inspection methods for centrifugal and positive displacement pumps, gear boxes, motors, heat exchangers, and turbines.

This important new reference addresses the principles and calculations dealing with the hydraulics of water systems. Hydraulics for Operators includes what is necessary for a basic understanding of water and wastewater utility operations, and it emphasizes practical applications of these principles. This practical reference covers a wide variety of important subjects such as mass density and flow, pressure, open channel flow, pumping, friction loss, and flow measurement. Hydraulics for Operators is loaded with graphics, and sample exercises are included to ensure this new book is an easily understood reference. It is a must for your operator library.

This practical reference describes the occurrence of cavitation in a centrifugal pump, and how unacceptable cavitation can be avoided. It explains cavitation problems such as hydraulic performance loss, hydrodynamically or thermodynamically induced surging, and cavitation erosion. General guidelines for acceptable operation conditions, such as, net positive suction head (NPSH) margins and minimum flowrates, are presented along with evidence and logic for these proposed guidelines.

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