

Api Shaft Alignment

Fans and Ventilation
 Gas Turbine Engineering Handbook
 California Oil World
 Pump Wisdom
 Major Process Equipment Maintenance and Repair
 Plant Engineer's Handbook
 Up and Running with Autodesk Inventor Simulation 2010
 Petroleum Refining Design and Applications Handbook, Volume 3
 API Recommended Practice
 API Specification
 Surveillance and Maintenance of Rotating Equipment
 Thomas Register
 Pumping Station Design
 Process Machinery
 The Composite Catalog of Oil Field and Pipe Line Equipment
 Petrochemical Machinery Insights
 Pumping Station Design
 Shaft Alignment Handbook
 Compressors
 Seals and Sealing Handbook
 Shaft Alignment Handbook, Third Edition
 Handbook of Pumps and Pumping
 Engineers' Guide to Rotating Equipment
 Petroleum Refining Design and Applications Handbook, Volume 5
 Pump User's Handbook
 Proceedings of the ... International Pump Symposium
 Application of Bid Documents
 Up and Running with Autodesk Inventor Simulation 2011
 Know and Understand Centrifugal Pumps
 Couplings and Shaft Alignment
 Basic Shaft Alignment Workbook
 The Practical Pumping Handbook
 Practical Machinery Vibration Analysis and Predictive Maintenance
 Vibration Monitoring of Induction Motors
 Machinery Component Maintenance and Repair
 Troubleshooting Centrifugal Pumps and their systems
 Shaft Alignment Handbook, Third Edition
 Root Cause Failure Analysis
 Forsthofer's Best Practice Handbook for Rotating Machinery
 Technical Report

Api Shaft Alignment

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Fans and Ventilation Elsevier

A practical account of pumping, starting with basics and providing a detailed but accessible understanding of all aspects of the pumping process and what can go wrong with it. (Midwest).

Gas Turbine Engineering Handbook Elsevier

The practical reference book and guide to fans, ventilation and ancillary equipment with a comprehensive buyers' guide to worldwide manufacturers and suppliers. Bill Cory, well-known throughout the fans and ventilation industry, has produced a comprehensive, practical reference with a broad scope: types of fans, how and why they work, ductwork, performance standards, testing, stressing, shafts and bearings. With advances in technology, manufacturers have had to continually improve the performance and efficiency of fans and ventilation systems; as a result, improvements that once seemed impossible have been achieved. Systems now range in all sizes, shapes, and weight, to match the ever increasing applications. An important reference in

the wake of continuing harmonisation of standards throughout the European Union and the progression of National and International standards. The Handbook of Fans and Ventilation is a welcome aid to both mechanical and electrical engineers. This book will help you to... •Understand how and why fans work •Choose the appropriate fan for the right job, helping to save time and money •Learn installation, operational and maintenance techniques to keep your fans in perfect working order •Discover special fans for your unique requirements •Source the most appropriate equipment manufacturers for your individual needs Helps you select, install, operate and maintain the appropriate fan for your application, to help you save time and money Use as a reference tool, course-book, supplier guide or as a fan/ventilation selection system Contains a guide to manufacturers and suppliers of ventilation systems, organised according to their different styles and basic principles of operation

California Oil World Walter de Gruyter GmbH & Co KG

This practical reference provides in-depth information required to understand and properly estimate compressor capabilities and to select the proper designs. The many examples clearly illustrate

key aspects to help readers understand the "real world" of compressor technology. *Compressors: Selection and Sizing*, Third Edition is completely updated with new API standards. The latest technology is presented in the areas of efficiency, 3-D geometry, electronics, and CAD. The critical chapter on negotiating the purchase of a compressor now reflects current industry practices for preparing detailed specifications, bid evaluations, engineering reviews, and installation. Book jacket.

Pump Wisdom CRC Press

Machinery Vibration Analysis and Predictive Maintenance provides a detailed examination of the detection, location and diagnosis of faults in rotating and reciprocating machinery using vibration analysis. The basics and underlying physics of vibration signals are first examined. The acquisition and processing of signals is then reviewed followed by a discussion of machinery fault diagnosis using vibration analysis. Hereafter the important issue of rectifying faults that have been identified using vibration analysis is covered. The book also covers the other techniques of predictive maintenance such as oil and particle analysis, ultrasound and infrared thermography. The latest approaches and equipment used together with the latest techniques in vibration analysis emerging from current research are also highlighted. Understand the basics of vibration measurement Apply vibration analysis for different machinery faults Diagnose machinery-related problems with vibration analysis techniques *Major Process Equipment Maintenance and Repair* John Wiley & Sons

This book deals with flexible couplings which transmit power between the shafts of important rotary machines and with shaft alignment. The objective is to provide positive practical guidance to engineers involved in the design, specification, selection of equipment and operation and maintenance of machine systems involving shaft couplings for the transmission of power and the inter-related problems of shaft alignment.

Plant Engineer's Handbook Butterworth-Heinemann

Rotating machinery is the heart of many industrial operations, but many engineers and technicians perform shaft alignment by guesswork or with limited knowledge of the tools and methods available to accurately and effectively align their machinery. Two decades ago, John Piotrowski conferred upon the field an unprecedented tool: the first edition of the *Shaft Alignment Handbook*. Two editions later, this bestselling handbook is still the most trusted and widely embraced guide in the field. The third edition was reorganized, updated, and expanded to be more convenient, intuitive, and to reflect the latest developments in the area. Dedicated chapters now discuss the basics of alignment modeling, each of the five basic alignment methods, and electro-optic methods. Significant new material reflects recent findings on detecting misalignment, machinery movement from offline to running conditions, multiple element drive trains, and specific information on virtually every type of rotating machinery in existence. Entirely new chapters explore bore and parallel alignment. Providing detailed guidance based on years of hands-on experience, the *Shaft Alignment Handbook*, Third Edition is a practical tool to help avoid costly shutdowns, dangerous failures, and early replacements.

Up and Running with Autodesk Inventor Simulation 2010 The Fairmont Press, Inc.

An accessible guide to the main reasons pumps fail and what can be done about it *Workhorses* in many different industries, including the oil industry, water industry, chemical industry, food industry, and pharmaceutical industry to name a few, pumps are a vital contributor to maintaining and increasing the flow of production. In fact, the pump industry itself is a multi-billion dollar global business. Taking the unique approach of addressing

both pump operators and pump designers, *Pump Wisdom* explains the causes of failure in centrifugal pump function whether it's pump selection, overlooked installation criteria, or the accumulation of small deviations and maps out remedies with well defined methods that target specific issues, rather than focusing on technical generalities and theory. Clearly written and concise, *Pump Wisdom* relies on proven tactics for reducing pump vulnerabilities and correcting imbalances between hydraulic assembly and mechanical assembly. In addition, it supplies sound tips for detecting and rectifying risky shortcuts taken by pump designers and manufacturers. *Pump Wisdom* also: Provides a concise explanation of how pumps function Details the specifications to be considered when purchasing a pump Provides tips on the installation of centrifugal pumps in process plants Written in concise language that avoids excessive mathematical treatment Explains pump hydraulics in easy to understand terms Emphasizes the mechanical aspects of pumps with coverage on bearings, seals, impeller trimming, lubricant application, lubricant types, and more *Pump Wisdom* sheds light on the techniques for stabilizing pump performance and maximizing pump efficiency. Its concise format allows readers to strike directly at the heart of the problem and helps them devise strategies to prevent costly failures before they occur.

Petroleum Refining Design and Applications Handbook, Volume 3 Elsevier

Up and Running with Autodesk Inventor Simulation 2011 provides a clear path to perfecting the skills of designers and engineers using simulation inside Autodesk Inventor. This book includes modal analysis, stress singularities, and H-P convergence, in addition to the new frame analysis functionality. The book is divided into three sections: dynamic solution, stress analysis, and frame analysis, with a total of nineteen chapters. The first chapter of each section offers an overview of the topic covered in that section. There is also an overview of the Inventor Simulation interface and its strengths, weaknesses, and workarounds.

Furthermore, the book emphasizes the joint creation process and discusses in detail the unique and powerful parametric optimization function. This book will be a useful learning tool for designers and engineers, and a source for applying simulation for faster production of better products. Get up to speed fast with real-life, step-by-step design problems—3 new to this edition! Discover how to convert CAD models to working digital prototypes, enabling you to enhance designs and simulate real-world performance without creating physical prototypes Learn all about the frame analysis environment—new to Autodesk Inventor Simulation 2011—and other key features of this powerful software, including modal analysis, assembly stress analysis, parametric optimization analysis, effective joint creation, and more Manipulate and experiment with design solutions from the book using datasets provided on the book's companion website (<http://www.elsevierdirect.com/v2/companion.jsp?ISBN=9780123821027>) and move seamlessly onto tackling your own design challenges with confidence New edition features enhanced coverage of key areas, including stress singularities, h-p convergence, curved elements, mechanism redundancies, FEA and simulation theory, with hand calculations, and more

API Recommended Practice Elsevier

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

API Specification John Wiley & Sons

Rotating machinery is the heart of many industrial operations, but many engineers and technicians perform shaft alignment by guesswork or with limited knowledge of the tools and methods available to accurately and effectively align their machinery. Two decades ago, John Piotrowski conferred upon the field an unprecedented tool: the first edition of the Shaft Alignment Handbook. Two editions later, this bestselling handbook is still the most trusted and widely embraced guide in the field. The third edition was reorganized, updated, and expanded to be more convenient, intuitive, and to reflect the latest developments in the area. Dedicated chapters now discuss the basics of alignment modeling, each of the five basic alignment methods, and electro-optic methods. Significant new material reflects recent findings on detecting misalignment, machinery movement from offline to running conditions, multiple element drive trains, and specific information on virtually every type of rotating machinery in existence. Entirely new chapters explore bore and parallel alignment. Providing detailed guidance based on years of hands-on experience, the Shaft Alignment Handbook, Third Edition is a practical tool to help avoid costly shutdowns, dangerous failures, and early replacements.

Surveillance and Maintenance of Rotating Equipment Elsevier

Pumping Station Design, 3e is an essential reference for all professionals. From the expert city engineer to the new design officer, this book assists those who need to apply the fundamentals of various disciplines and subjects in order to produce a well-integrated pumping station that is reliable, easy to operate and maintain, and free from design mistakes. The depth of experience and expertise of the authors, contributors, and peers reviewing the content as well as the breadth of information in this book is unparalleled, making this the only book of its kind. An award-winning reference work that has become THE standard in the field Dispenses expert information on how to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes 60% of the material has been updated to reflect current standards and changes in practice since the book was last published in 1998 New material added to this edition includes: the latest design information, the use of computers for pump selection, extensive references to Hydraulic Institute Standards and much more!

Thomas Register Elsevier

Root Cause Failure Analysis Provides the knowledge and failure analysis skills necessary for preventing and investigating process equipment failures Process equipment and piping systems are essential for plant availability and performance. Regularly exposed to hazardous service conditions and damage mechanisms, these critical plant assets can result in major failures if not effectively monitored and assessed—potentially causing serious injuries and significant business losses. When used proactively, Root Cause Failure Analysis (RCFA) helps reliability engineers inspect the process equipment and piping system before any abnormal conditions occur. RCFA is equally important after a failure happens: it determines the impact of a failure, helps control the resultant damage, and identifies the steps for preventing future problems. *Root Cause Failure Analysis: A Guide to Improve Plant Reliability* offers readers clear understanding of degradation mechanisms of process equipment and the concepts needed to perform industrial RCFA investigations. This comprehensive resource describes the

methodology of RCFA and provides multiple techniques and industry practices for identifying, predicting, and evaluating equipment failures. Divided into two parts, the text first introduces Root Cause Analysis, explains the failure analysis process, and discusses the management of both human and latent error. The second part focuses on failure analysis of various components such as bolted joints, mechanical seals, steam traps, gearboxes, bearings, couplings, pumps, and compressors. This authoritative volume: Illustrates how failures are associated with part integrity, a complete system, or the execution of an engineering process Describes how proper design, operation, and maintenance of the equipment help to enhance their reliability Covers analysis techniques and industry practices including 5-Why RCFA, fault tree analysis, Pareto charts, and Ishikawa diagrams Features a detailed case study of process plant machinery and a chapter on proactive measures for avoiding failures Bridging the gap between engineering education and practical application, *Root Cause Failure Analysis: A Guide to Improve Plant Reliability* is an important reference and guide for industrial professionals, including process plant engineers, planning managers, operation and maintenance engineers, process designers, chemical engineers, and instrument engineers. It is also a valuable text for researchers, instructors, and students in relevant areas of engineering and science.

Pumping Station Design Butterworth-Heinemann

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the *Gas Turbine Engineering Handbook* updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

Process Machinery Cambridge University Press

Pumps are commonly encountered in industry and are essential to the smooth running of many industrial complexes. Mechanical engineers entering industry often have little practical experience of pumps and their problems, and need to build up an understanding of the design, operation and appropriate use of pumps, plus how to diagnose faults and put them right. This book tackles all these aspects in a readable manner, drawing on the authors' long experience of lecturing and writing on centrifugal pumps for industrial audiences.

The Composite Catalog of Oil Field and Pipe Line Equipment Elsevier

This work offers essential, step-by-step guidelines for solving

complex alignment tasks quickly and accurately. A comprehensive analysis of coupled, rotating machinery systems is provided. This edition features: extensive coverage of coupling design, installation and maintenance; reveals modern tactics for finding and correcting soft foot problems; discusses novel dial-indicator measurement techniques; and more. Topics of discussion include foundations, baseplates, machine casings, and piping strain, flexible and rigid couplings, alignment and coupling tolerances, shaft alignment techniques and measuring tools, aligning V-belt drives, and aligning multiple element drive trains and right angle drives.

Petrochemical Machinery Insights John Wiley & Sons
 Troubleshooting Centrifugal Pumps and Their Systems, Second Edition, begins by discussing pump characteristics that can be reconfigured to suit changing conditions. Next, it provides guidance on when to withdraw a pump from service for repair and how it should be subsequently treated. It is an ideal resource for those who feel ill-equipped to analyze unsatisfactory pump system behavior, and is also a great reference for pump engineers, pump hydraulic designers, and graduate students who need systemic knowledge on centrifugal pumps and their systems. Presents the basic mechanisms of abrasive wear in centrifugal pumps, including different wear patterns and their causes Discusses performance improvements to help readers meet the new requirements of a pumping system Describes repair and life improvement techniques Includes real-world examples of troubleshooting in centrifugal pumps and systems
Pumping Station Design Butterworth-Heinemann

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. COMPLETE CONTENTS: Engineering fundamentals Bending, torsion, and stress Motion and dynamics Rotating machine fundamentals: Vibration, balancing, and noise Machine elements Fluid mechanics Centrifugal pumps Compressors and turbocompressors Prime movers Draught plant Basic mechanical design Materials of construction The machinery directives Organisations and associations.

Shaft Alignment Handbook Elsevier

Plant engineers are responsible for a wide range of industrial

activities, and may work in any industry. This means that breadth of knowledge required by such professionals is so wide that previous books addressing plant engineering have either been limited to only certain subjects or cursory in their treatment of topics. The Plant Engineering Handbook offers comprehensive coverage of an enormous range of subjects which are of vital interest to the plant engineer and anyone connected with industrial operations or maintenance. This handbook is packed with indispensable information, from defining just what a Plant Engineer actually does, through 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) to issues such as lubrication, corrosion, energy conservation, maintenance and materials handling as well as environmental considerations, insurance matters and financial concerns. One of the major features of this volume is its comprehensive treatment of the maintenance management function; in addition to chapters which outline the operation of the various plant equipment there is specialist advice on how to get the most out of that equipment and its operators. This will enable the reader to reap the rewards of more efficient operations, more effective employee contributions and in turn more profitable performance from the plant and the business to which it contributes. The Editor, Keith Mobley and the team of expert contributors, have practiced at the highest levels in leading corporations across the USA, Europe and the rest of the world. Produced in association with Plant Engineering magazine, this book will be a source of information for plant engineers in any industry worldwide. * A Flagship reference work for the Plant Engineering series * Provides comprehensive coverage on an enormous range of subjects vital to plant and industrial engineer * Includes an international perspective including dual units and regulations

Compressors John Wiley & Sons

Pumping Station Design, Third edition shows how to apply the fundamentals of various disciplines and subjects to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes. In a field where inappropriate design can be extremely costly for any of the foregoing reasons, there is simply no excuse for not taking expert advice from this book. The content of this second edition has been thoroughly reviewed and approved by many qualified experts. The depth of experience and expertise of each contributor makes the second edition of Pumping Station Design an essential addition to the bookshelves of anyone in the field.

Seals and Sealing Handbook Elsevier

Forsthoffer summarizes, expands, and updates the content from previous books in a convenient all-in-one volume. This title offers comprehensive technical coverage and insider information on best practices derived from lessons learned in the engineering, operation, and maintenance of a wide array of rotating equipment.