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API Standard 617

Axial and Centrifugal Compressors and Expander-compressors

Effective September 1, 2014 | 104 Pages | 684.00 USD (PRINTING COSTS)

Covers the minimum requirements for axial compressors, expander-compressors and integral geared process centrifugal compressors, and expander-compressors for use in the petroleum, chemical, and gas industries where they handle dirty gas.

Part 1—General Requirements, contains information pertinent to all equipment covered by this other parts of this document.

Part 2—Internally-Geared Centrifugal and Axial Compressors, specifies requirements for internally-geared centrifugal and axial compressors, in addition to the general requirements specified in API 617, Part 1. These machines do not have gears integral with their shafts but can have external gears.

Part 3—Internally-Geared Centrifugal Compressors, specifies internally-geared centrifugal compressors in compliance with API 617, Part 1.

Part 4—Expander-compressors, specifies requirements for expander-compressors, in addition to the general requirements specified in Part 1.

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Forsthoffer's Proven Guidelines for Rotating Machinery Excellence William E. Forsthoffer, 2021-12-03 Forsthoffer's Proven Guidelines for Rotating Machinery Excellence draws on Forsthoffer's 60 years of industry experience to get new operatives up to speed fast. Each of the topics covered are selected based on hard won knowledge of where problems with rotating machinery originate. This easy to use highly illustrated book is designed to elevate the competence of entry level personnel to enable them to immediately contribute to providing optimum rotating machinery reliability for their companies. The first 3 chapters address practical personal rotating machinery awareness detail how to optimize this awareness to identify low hanging fruit safety and reliability improvement opportunities and how to define and implement a cost effective action plan. The remaining chapters focus on the function of key components in each type of rotating machinery and how to monitor and correct their condition before failure. The last chapter is an RCA Root Cause Analysis procedure chapter detailing effective Root Cause Identification before a Failure to prevent a costly failure and the need for a RCFA. Real life examples are provided from the field of operation and maintenance of rotating machinery helping readers to implement effectively. Includes important advice on monitoring approaches for different types of machines highlighting differences between working with pumps and compressors. A chapter on Root Cause Identification features proven methods to help your organization to prevent machinery failures.

Forsthoffer's Best Practice Handbook for Rotating Machinery William E. Forsthoffer, 2011-05-21 Optimize plant asset safety and reliability while minimizing operating costs with this invaluable guide to the engineering operation and maintenance of rotating equipment. Based upon his multi volume Rotating Equipment Handbooks Forsthoffer's Best Practice Handbook for Rotating Machinery summarises, expands and updates the content from these previous books in a convenient all in one volume. Offering 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, this new title presents a unique Best Practice and Lessons Learned chapter framework providing bite sized troubleshooting instruction on complex operation and maintenance issues across a wide array of industrial rotating machinery. Five chapters of completely new material combined with updated material from earlier volumes making this the most comprehensive and up to date handbook for rotary equipment currently available. Intended for maintenance engineering operation and management Forsthoffer's Best Practice Handbook for Rotating Machinery is a one stop resource packed with a lifetime's rotating machinery experience to help you improve efficiency, safety, reliability and cost. A unique Lessons Learned Best Practices component opens and acts as a framework for each chapter. Readers not only become familiar with a wide array of industrial rotating machinery, they learn how to operate and maintain it by adopting the troubleshooting perspective that the book provides. Five chapters of completely new material combined with totally updated material from earlier volumes of Forsthoffer's Handbook make this the most comprehensive and up to date handbook for rotary equipment currently. Users

of Forsthoffer's multi volume Rotating Equipment Handbooks now have an updated set with expanded coverage all in one convenient reasonably priced volume **More Best Practices for Rotating Equipment** Michael S. Forsthoffer, 2017-02-06

More Best Practices for Rotating Equipment follows Forsthoffer's multi volume Rotating Equipment Handbooks addressing the latest best practices in industrial rotating machinery and also including a comprehensive treatment of the basics for reference The author's famous troubleshooting approach teaches the reader proven methodologies for installation operation and maintenance of equipment and covers all phases of work with rotating equipment Reliability optimization is also addressed for the first time The book is ideal for engineers working in the design installation operation and maintenance of power machinery It is also an essential source of information for postgraduate students and researchers of mechanical and industrial engineering Presents 200 new best practices for rotating equipment Offers an easy to use reference with each chapter addressing a different type of equipment Covers all phases of work with rotating equipment from pre commissioning through maintenance *Compressors* Royce N. Brown, 2011-08-30 This practical reference provides in depth information required to understand and properly estimate compressor capabilities and to select the proper designs Engineers and students will gain a thorough understanding of compression principles equipment applications selection sizing installation and maintenance 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 Additions requested by readers include a new section on diaphragm compressors in the reciprocating compressors chapter and a new section on rotor dynamics stability in the chapter on diaphragm compressors The latest technology is presented in the areas of efficiency 3 D geometry electronics CAD and the use of plant computers 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 A key chapter compares the reliability of various types of compressors Everything you need to select the right compressor for your specific application Practical information on compression principles equipment applications selection sizing installation and maintenance New sections on diaphragm compressors and an introduction to rotor dynamics stability *Hydrocarbon Processing* , 1980 **Vibration Damping, Control, and Design** Clarence W. de Silva, 2007-04-05

Reducing and controlling the level of vibration in a mechanical system leads to an improved work environment and product quality reduced noise more economical operation and longer equipment life Adequate design is essential for reducing vibrations while damping and control methods help further reduce and manipulate vibrations when design strat **Control of Surge in Centrifugal Compressors by Active Magnetic Bearings** Se Young Yoon, Zongli Lin, Paul E. Allaire, 2012-06-19

Surge Control of Active magnetic bearing suspended Centrifugal Compressors sets out the fundamentals of integrating active magnetic bearing AMB rotor suspension technology in compressor systems and describes how this relatively new bearing technology can be employed in active control of compressor surge initiation The authors provide a self contained and

comprehensive review of rotordynamics and the fundamentals of AMB technology The active stabilization of compressor surge employing AMBs in a machine is fully explored from modeling of instability and controller design to the implementation and experimental testing of the control algorithm in a specially constructed industrial size centrifugal compression system The results of these tests demonstrate the great potential of the new surge control method suggested in this text This book will be useful for engineers in industries that involve turbocompressors and magnetic bearings as well as for researchers and graduate students in the field of applied control Whatever their level of experience engineers working in the fields of turbomachinery magnetic bearings rotordynamics and controls will find the material in this book absorbing as all these important aspects of engineering are integrated to create a multi disciplinary solution to a real life industrial problem and the book is a suitable introduction to the area for newcomers *Process Machinery Handbook* Robert X. Perez, 2025-07-22

Process Machinery Handbook For Field Personnel Decision Makers and Students equips newcomers and seasoned professionals with essential insights into the diverse world of process machinery empowering them to understand unique performance characteristics common failure modes and effective strategies for enhancing reliability in their operations Any professional working at a production site for any length of time knows that process machinery comes in a wide range of designs and sizes but not all process machines are considered equal Some machines are more critical to the process than others some are small some are very large some spin fast and some turn relatively slowly The great diversity in their construction and application can be daunting to those new to the industry and sometimes even challenge machinery veterans There are many common concepts that apply to all equipment types but each equipment category has its own unique application and performance characteristics including cavitation in liquid handling pumps surging in centrifugal gas compressors rotor instability in high speed centrifugal compressors and the effect of the compression ratio on a reciprocating compressor s the discharge temperature It is also essential for users to understand how and why different types of machinery fail keeping in mind that the common failure modes differ greatly between rotating machinery types We know that by addressing the common types of failure modes associated with each machine type we can achieve significant improvements in their reliability The first step in organizing an effective machinery reliability program is committing to performing failure analyses and gathering failure statistics These activities will help users learn how and why their machines are failing The next step is to continuously modify machines processes and methods to avoid common failures *Process Machinery Handbook* For Field Personnel Decision Makers and Students gives students and professionals alike the tools they need to understand the fundamentals of working with rotating machinery *A Practical Guide to Compressor Technology* Heinz P. Bloch, 2006-10-25 A Complete overview of theory selection design operation and maintenance This text offers a thorough overview of the operating characteristics efficiencies design features troubleshooting and maintenance of dynamic and positive displacement process gas compressors The author examines a wide spectrum of compressors used in heavy process

industries with an emphasis on improving reliability and avoiding failure Readers learn both the theory underlying compressors as well as the myriad day to day practical issues and challenges that chemical engineers and plant operation personnel must address The text features Latest design and manufacturing details of dynamic and positive displacement process gas compressors Examination of the full range of machines available for the heavy process industries Thorough presentation of the arrangements material composition and basic laws governing the design of all important process gas compressors Guidance on selecting optimum compressor configurations controls components and auxiliaries to maximize reliability Monitoring and performance analysis for optimal machinery condition Systematic methods to avoid failure through the application of field tested reliability enhancement concepts Fluid instability and externally pressurized bearings Reliability driven asset management strategies for compressors Upstream separator and filter issues The text s structure is carefully designed to build knowledge and skills by starting with key principles and then moving to more advanced material Hundreds of photos depicting various types of compressors components and processes are provided throughout Compressors often represent a multi million dollar investment for such applications as petrochemical processing and refining refrigeration pipeline transport and turbochargers and superchargers for internal combustion engines This text enables the broad range of engineers and plant managers who work with these compressors to make the most of the investment by leading them to the best decisions for selecting operating upgrading maintaining and troubleshooting

Design, Modeling and Reliability in Rotating Machinery Robert X. Perez, 2022-01-20 Design Modeling and Reliability in ROTATING MACHINERY This broad collection of current rotating machinery topics written by industry experts is a must have for rotating equipment engineers maintenance personnel students and anyone else wanting to stay abreast with current rotating machinery concepts and technology Rotating machinery represents a broad category of equipment which includes pumps compressors fans gas turbines electric motors internal combustion engines and other equipment that are critical to the efficient operation of process facilities around the world These machines must be designed to move gases and liquids safely reliably and in an environmentally friendly manner To fully understand rotating machinery owners must be familiar with their associated technologies such as machine design lubrication fluid dynamics thermodynamics rotordynamics vibration analysis condition monitoring maintenance practices reliability theory and other topics The goal of the Advances in Rotating Machinery book series is to provide industry practitioners a time savings means of learning about the most up to date rotating machinery ideas and best practices This three book series will cover industry relevant topics such as design assessments modeling reliability improvements maintenance methods and best practices reliability audits data collection data analysis condition monitoring and more This first volume begins the series by focusing on rotating machinery design assessments modeling and analysis and reliability improvement ideas This broad collection of current rotating machinery topics written by industry experts is a must have for rotating equipment engineers maintenance personnel students and anyone else wanting to stay

abreast with current rotating machinery concepts and technology Design Modeling and Reliability in Rotating Machinery covers among many other topics Rotordynamics and torsional vibration modeling Hydrodynamic bearing design theory and current practices Centrifugal and reciprocating compressor design and analysis Centrifugal pump design selection and monitoring General purpose steam turbine sizing

Formalized Natural Languages dr. ir. Andries Van Renssen, 2013-11-09 Formalized natural languages such as Formalized English and Formalized Dutch are powerful extensible languages and ontologies for information and knowledge modeling The languages enable electronic data storage and data exchange in a neutral and system independent way They also enable terminology standardization automated translation data integration and interoperability of systems Formal English can be used as a basis for the creation of universal databases and interfaces between systems or to standardize the content of systems and to integrate data from different sources It is the 2nd edition of Gellish a Generic Extensible Ontological Language

Handbook of Lubrication and Tribology Robert W. Bruce, 2012-07-06 Since the publication of the best selling first edition the growing price and environmental cost of energy have increased the significance of tribology Handbook of Lubrication and Tribology Volume II Theory and Design Second Edition demonstrates how the principles of tribology can address cost savings energy conservation and environmental protection This second edition provides a thorough treatment of established knowledge and practices along with detailed references for further study Written by the foremost experts in the field the book is divided into four sections The first reviews the basic principles of tribology wear mechanisms and modes of lubrication The second section covers the full range of lubricants coolants including mineral oil synthetic fluids and water based fluids In the third section the contributors describe many wear and friction reducing materials and treatments which are currently the fastest growing areas of tribology with announcements of new coatings better performance and new vendors being made every month The final section presents components equipment and designs commonly found in tribological systems It also examines specific industrial areas and their processes Sponsored by the Society of Tribologists and Lubrication Engineers this handbook incorporates up to date peer reviewed information for tackling tribological problems and improving lubricants and tribological systems The book shows how the proper use of generally accepted tribological practices can save money conserve energy and protect the environment

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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 **Proceedings of the ... Turbomachinery Symposium** ,1994 Compressor Technology Advances Hurler Elliott,Heinz Bloch,2021-02-22 This book describes fresh approaches to compression technology The authors describe in detail where why and how these can be of value to process plants As such plants have become ever larger and more complex more technology intensive solutions have had to be developed for process machinery The best practices that have emerged to address these requirements are assembled in this book Indian Trade Journal ,1979 *Piping and Pipeline Engineering* George A. Antaki,2003-05-28 Taking a big picture approach Piping and Pipeline Engineering Design Construction Maintenance Integrity and Repair elucidates the fundamental steps to any successful piping and pipeline engineering project whether it is routine maintenance or a new multi million dollar project The author explores the qualitative details calculations and techniques that are essential in supporting competent decisions He pairs coverage of real world practice with the underlying technical principles in materials design construction inspection testing and maintenance Discover the seven essential principles that will help establish a balance between production cost safety and integrity of piping systems and pipelines The book includes coverage of codes and standards design analysis welding and inspection corrosion mechanisms fitness for service and failure analysis and an overview of valve selection and application It features the technical basis of piping and pipeline code design rules for normal operating conditions and occasional loads and addresses the fundamental principles of materials design fabrication testing and corrosion and their effect on system integrity **Unexpected Odyssey: Danzig to Tennessee** Klaus V. Luehning,2014-07-19 A memoir of a life beginning 5 months after the onset of WW II escaping the Russian invasion living out the war in Frankfurt and immigrating to America Growing up in Brooklyn New York being a pizza maker and then eventually graduating from the U S Merchant Marine Academy as a ship s engineer The years at sea evolved in teaching Marine Engineering at Texas A M University as an Associate Professor as the first professor hired and helped start the Texas Maritime Academy Upon completion of the first training cruise of Texas Maritime Academy and a graduate degree then went on to being a sales engineering executive then back to graduate school for a doctorate and an intervening career as an Executive Chef for 16 years The story concludes with reuniting with an old friend and moving to Tennessee to become a Senior Clinical substance abuse Counselor and anchoring in retirement *Compression Machinery for Oil and Gas* Klaus Brun,Rainer Kurz,2018-11-30 Compression Machinery for Oil and Gas is the go to source for all oil and gas compressors across the industry spectrum Covering multiple topics from start to finish this reference gives a complete guide to technology developments and their applications and implementation including research trends Including information on relevant standards and developments in subsea and downhole compression this book aids engineers with a handy single resource that will help them stay up to date on the compressors needed for today s oil and gas applications Provides an overview of the latest technology along with a detailed discussion of

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