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**Digitalization Cases How Organizations Rethink Their Business for the Digital Age** *Springer* This book presents a rich compilation of real-world cases on digitalization, the goal being to share first-hand insights from respected organizations and to make digitalization more tangible. As virtually every economic and societal sector is now being challenged by emerging technologies, the digital economy is a highly volatile, uncertain, complex and ambiguous place - and one that holds substantial challenges and opportunities for established organizations. Against this backdrop, this book reports on best practices and lessons learned from organizations that have succeeded in overcoming the challenges and seizing the opportunities of the digital economy. It illustrates how twenty-one organizations have leveraged their capabilities to create disruptive innovations, to develop digital business models, and to digitally transform themselves. These cases stem from various industries (e.g. automotive, insurance, consulting, and public services) and countries, reflecting the many facets of digitalization. As all case descriptions follow a uniform schema, they are easily accessible, and provide insightful examples for practitioners as well as interesting cases for researchers, teachers and students. Digitalization is reshaping business on a global scale, and it is evident that organizations must transform to thrive in the digital economy. Digitalization Cases provides first-hand insights into the efforts of renowned companies. The presented actions, results, and lessons learned are a great inspiration for managers, students, and academics. Anna Kopp, Head of IT Germany, Microsoft Understanding digitalization in all its facets requires knowledge about its opportunities and challenges in different contexts. Providing 21 cases from different companies all around the world, Digitalization Cases makes an important contribution toward the comprehensibility of digitalization - from a practical and a scientific point of view. Dorothy Leidner, Ferguson Professor of Information Systems, Baylor University This book is a great source of inspiration and insight on how to drive digitalization. It shows easy to understand good practice examples which illustrate opportunities, and at the same time helps to learn what needs to be done to realize them. I consider this book a must-read for every practitioner who cares about digitalization. Martin Petry, Chief Information Officer and Head of Business Excellence, Hilti Electrical Engineering Regulations Improving Compressed Air System Performance a sourcebook for industry *U.S. Department of Energy* Refrigeration units in marine vessels Alternatives to HCFCs and high GWP HFCs *Nordic Council of Ministers* Fishing vessels can be equipped with energy efficient refrigeration technology applying natural working fluids. Ammonia refrigeration systems have been the first choice, but CO2 units have also become increasingly common in the maritime sector in the last few years. When retrofitting or implementing CO2 refrigeration plants, less space on board is required and such units allow good service and maintenance. Nowadays, cruise ship owners prefer CO2 units for the provision refrigeration plants. Ship owners, responsible for the health and safety of the crew and passengers, must carefully evaluate the usage of flammable low GWP working fluids, due to a high risk that toxic decomposition products are formed, even without the presence of an open flame. Suggestions for further work include a Nordic Technology Hub for global marine refrigeration R&D and development support for key components. Compressed Air; 24 *Legare Street Press* This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Rules of Thumb for Chemical Engineers A Manual of Quick, Accurate Solutions to Everyday Process Engineering Problems *Gulf Professional Publishing* The most complete guide of its kind, this is the standard handbook for chemical and process engineers. All new material on fluid flow, long pipe, fractionators, separators and accumulators, cooling towers, gas treating, blending, troubleshooting field cases, gas solubility, and density of irregular solids. This substantial addition of material will also include conversion tables and a new appendix, "Shortcut Equipment Design Methods." This convenient volume helps solve field engineering problems with its hundreds of common sense techniques, shortcuts, and calculations. Here, in a compact, easy-to-use format, are practical tips, handy formulas, correlations, curves, charts, tables, and shortcut methods that will save engineers valuable time and effort. Hundreds of common sense techniques and calculations help users quickly and accurately solve day-to-day design, operations, and equipment problems. More Words and Pictures Product Lifecycle Management in the Digital Twin Era 16th IFIP WG 5.1 International Conference, PLM 2019, Moscow, Russia, July 8-12, 2019, Revised Selected Papers *Springer Nature* This book constitutes the refereed post-conference proceedings of the 16th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2019, held in Moscow, Russia, in July 2019. The 38 revised full papers presented were carefully reviewed and selected from 63 submissions. The papers are organized in the following topical sections: 3D modelling and data structures; PLM maturity and industry 4.0; ontologies and semantics; PLM and conceptual design; knowledge and change management; IoT and PLM; integrating manufacturing realities; and integration of in-service and operation. Sustainable Agriculture-Beyond Organic Farming *MDPI* This book is a printed edition of the Special Issue "Sustainable Agriculture-Beyond Organic Farming" that was published in Sustainability The 'Made in Germany' Champion Brands Nation Branding, Innovation and World Export Leadership *Routledge* Germany's economic miracle is a widely-known phenomenon, and the world-leading, innovative products and services associated with German companies are something that others seek to imitate. In The 'Made in Germany' Champion Brands, Ugesh A. Joseph provides an extensively researched, insightful look at over 200 of Germany's best brands to see what they stand for, what has made them what they are today, and what might be transferable. The way Germany is branded as a nation carries across into the branding of its companies and services, particularly the global superstar brands - truly world-class in size, performance and reputation. Just as important are the medium-sized and small enterprises, known as the 'Mittelstand'. These innovative and successful enterprises from a wide range of industries and product / service categories are amongst the World market leaders in their own niche and play a huge part in making Germany what it is today. The book also focuses on German industrial entrepreneurship and a selection of innovative and emergent stars. All these companies are supported and encouraged by a sophisticated infrastructure of facilitators, influencers and enhancers - the research, industry, trade and standards organizations, the fairs and exhibitions and all the social and cultural factors that influence, enhance and add positive value to the country's image. Professionals or academics interested in business; entrepreneurship; branding and marketing; product or service development; international trade and business development policy, will find fascinating insights in this book; while those with an interest in Germany from emerging industrial economies will learn something of the secrets of German success. Energy Efficiency in Motor Driven Systems *Springer Science & Business Media* This book reports the state of the art of energy-efficient electrical motor driven system technologies, which can be used now and in the near future to achieve significant and cost-effective energy savings. It includes the recent developments in advanced electrical motor end-use devices (pumps, fans and compressors) by some of the largest manufacturers. Policies and programs to promote the large scale penetration of energy-efficient technologies and the market transformation are featured in the book, describing the experiences carried out in different parts of the world. This extensive coverage includes contributions from relevant institutions in the Europe, North America, Latin America, Africa, Asia, Australia and New Zealand. Thomas Register of American Manufacturers This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file. Best Practices for Compressed Air Systems Second Edition A "how-to" reference to help compressed air users and service providers improve the operating efficiencies and reliability of their air compressor and compressed air systems. The manual contains more than 300 pages original text, reference appendices, photos, and performance data. Fundamentals of Franchising Written specifically to help lawyers and non-lawyers brush up on franchise law, this respected publication - now in its fourth edition - is charged with useful definitions, practical tips, and expert advice from experienced franchise law practitioners. This practical guide examines franchise law from a wide-range of experiences and viewpoints. Each chapter is written by two experienced practitioners to provide a well-rounded guide to the fundamentals of franchise law and key issues in the practice, including trademark law; structuring the franchise relationship; disclosure issues; registration; franchise relationship laws; antitrust law; counseling franchisees; and more. Screw Compressors Three Dimensional Computational Fluid Dynamics and Solid Fluid Interaction *Springer Science & Business Media* This book presents the most up-to-date methods of three-dimensional modeling of the fluid dynamics and the solid-fluid interaction within these machines, which are still being developed. Adding modeling to the design process makes it possible not only to predict flow patterns more accurately, and also to determine distorting effects on rotors and casing of pressure and temperature distribution within the compressor. Examples outline the scope of the applied mathematical model. Fundamentals of Protein Structure and Function *Springer* This book serves as an introduction to protein structure and function. Starting with their makeup from simple building blocks, called amino acids, the 3-dimensional structure of proteins is explained. This leads to a discussion how misfolding of proteins causes diseases like cancer, various encephalopathies, or diabetes. Enzymology and modern concepts of enzyme kinetics are then introduced, taking into account the physiological, pharmacological and medical significance of this often neglected topic. This is followed by thorough coverage of haemoglobin and myoglobin, immunoproteins, motor proteins and movement, cell-cell interactions, molecular chaperones and chaperonins, transport of proteins to various cell compartments and solute transport across biological membranes. Proteins in the laboratory are also covered, including a detailed description of the purification and determination of proteins, as well as their characterisation for size and shape, structure and molecular interactions. The book emphasises the link between protein structure, physiological function and medical significance. This book can be used for graduate and advanced undergraduate classes covering protein structure and function and as an introductory text for researchers in protein biochemistry, molecular and cell biology, chemistry, biophysics, biomedicine and related courses. About the author: Dr. Buxbaum is a biochemist with interest in enzymology and protein science. He has been working on the biochemistry of membrane transport proteins

for nearly thirty years and has taught courses in biochemistry and biomedicine at several universities. Servitization in Industry *Springer* This book summarizes the "interim result" of the servitization activities in manufacturing industries. While the early literature on servitization tended to stress only its advantages, more recently, scholars have also started to refer to the challenges associated with servitization. This book attempts to give a balanced picture of servitization. The book is structured in four parts: Part I introduces the topic by presenting the most recent academic discussion about servitization and uses an empirical analysis to show the degree of servitization across Europe. The results of this analysis are then compared to the discussion in the literature. This comparison highlights the existing discrepancies between the rather euphoric literature and the more skeptical practical experience. The second and third parts attempt to explain these discrepancies by taking as a starting point the assumption that servitization recommendations have to consider the heterogeneity of the manufacturing sector and the capabilities of the provider. Part II presents articles which analyze the specific characteristics of different sectors with their barriers and potentials and presents frameworks for a successful servitization of the core sectors in European manufacturing industries which include, e.g. aeronautics, automotive, ICT, chemical industries, pulp and paper industries and different engineering sectors. Part III focuses on companies' capabilities which are necessary for successful servitization. These include strategic management, marketing, organization, innovation, engineering, human resources, controlling, quality and networks. All the contributions in parts II and III add up to a detailed picture of servitization for sectors and functions and indicate the practical implications for enterprises in manufacturing industries. The fourth part concludes the book with a chapter summarizing the findings and giving an outlook of servitization in manufacturing industries, its challenges and future developments. Screw Compressors Mathematical Modelling and Performance Calculation *Springer Science & Business Media* Although the principles of operation of helical screw machines, as compressors or expanders, have been well known for more than 100 years, it is only during the past 30 years that these machines have become widely used. The main reasons for the long period before they were adopted were their relatively poor efficiency and the high cost of manufacturing their rotors. Two main developments led to a solution to these difficulties. The first of these was the introduction of the asymmetric rotor profile in 1973. This reduced the bl- hole area, which was the main source of internal leakage by approximately 90%, and thereby raised the thermodynamic efficiency of these machines, to roughly the same level as that of traditional reciprocating compressors. The second was the introduction of precise thread milling machine tools at approximately the same time. This made it possible to manufacture items of complex shape, such as the rotors, both accurately and cheaply. From then on, as a result of their ever improving efficiencies, high reliability and compact form, screw compressors have taken an increasing share of the compressor market, especially in the fields of compressed air production, and refrigeration and air conditioning, and today, a substantial proportion of compressors manufactured for industry are of this type. Despite the now wide usage of screw compressors and the publication of many scientific papers on their development, only a handful of textbooks have been published to date, which give a rigorous exposition of the principles of their operation and none of these are in English. Practical Lubrication for Industrial Facilities *The Fairmont Press, Inc.* Completely revised, this new edition includes the latest material on oil analysis, the energy conservation aspects of lube oil application and selection and bearing protector seals. Information on synthesized hydrocarbons and oil mist lubrication is thoroughly revised. It addresses the full scope of industrial lubricants, including general purpose oils, hydraulic fluids, food-grade and environmentally friendly lubricants, synthetic lubricants, greases, pastes, waxes and tribosystems. Detailed coverage is provided on lubrication strategies for electric motor bearings, gear lubrication, compressors and gas engines, and steam and gas turbines. Other topics include proper lubricant handling and storage, as well as effective industrial plant oil analysis practices. Applying Real-world BPM in an SAP Environment *SAP PRESS* • Learn what business process management (BPM) is and how to get started within an SAP context • Benefit from a comprehensive compilation of use cases from early adopters • Discover SAP technology, methodology, governance, process-based implementation content, and performance & value metrics In this unique book, you will learn how to span the gap between business processes and information technology, as well as how to apply BPM within SAP projects. The authors provide extensive information on everything you need to know about the processes and methods to implement BPM (new ASAP, process-based implementation content, BPM technology, and more). Through real-world examples, best practices, and advice from SAP experts, you will understand how BPM works and how you can best use it to your advantage. Additionally, use cases from industry leaders and innovators show you how these early adopters improved their businesses by using BPM technology and methodology. Linking Strategy to Operation Explore how a company's business model is linked to the process model, therefore including performance and value drivers. BPM Anatomy Get an in-depth look at what makes BPM in SAP environments so effective, and understand all of the options and unique add-ons that are available for you to link to your SAP system. Real-Life Examples Explore use cases from different industries to understand how BPM can be applied to your project to maximize efficiency, streamline process performance, achieve performance and value creation, and optimize customer relations. Applicable Software for BPM Learn how standard software in general and SAP products in particular relate to the BPM approach. Bonus Material Access additional articles via the SAP PRESS website on some of BPM's future trends and more advanced fields from top BPM and SAP experts and researchers. Highlights □ Business Model Management • Performance and Value Drivers • ASAP 7 Core Methodology and Business • Add-Ons to ASAP • Implementation Quality and Process-Based • Implementation • Governance Framework and Agile • Methodology • Enterprise Architecture and SOA • SAP NetWeaver BPM and BRM • SAP NetWeaver Composition Environment • Rules and Decision Management • Process Lifecycles • Business Value Management Project Marketing Beyond Competitive Bidding *John Wiley & Sons Incorporated* Project Marketing: Beyond Competitive Bidding is the first English language book that focuses specifically on this important, emerging subject. Project marketing relates to the various marketing activities that take place prior to winning a contract. It deals with marketing of large and complex projects such as the construction of buildings and power stations. FEATURES \* The authors are all leading international figures in the field of project marketing. Bernard Cova is co-founder and leader of The European Network on Project Marketing and System Selling. \* The book provides models and methods that are necessary to develop a constructive approach to project marketing. \* It contains more than 20 short cases drawn from a wide variety of industries e.g. aerospace, construction, engineering, transport and energy. The cases are truly international with examples from Europe, Asia, USA and Africa. Project Marketing: Beyond Competitive Bidding can be used a textbook for MBA and other masters-level courses in project marketing and project management. It will also be highly relevant for practitioners and participants in executive and in-company training programs. Cryogenic Helium Refrigeration for Middle and Large Powers *Springer* This book offers a practical introduction to helium refrigeration engineering, taking a logical and structured approach to the design, building, commissioning, operation and maintenance of refrigeration systems. It begins with a short refresher of cryogenic principles, and a review of the theory of heat exchangers, allowing the reader to understand the importance of the heat exchanger role in the various thermodynamic cycle structures. The cycles are considered from the simplest (Joule Thomson) to the most complicated ones for the very large refrigeration plants and, finally, those operating at temperatures lower than 4.5 K. The focus then turns to the operation, ability and limitations of the main components, including room temperature cycle screw compressors, heat exchangers, cryogenic expansion turbines, cryogenic centrifugal compressors and circulators. The book also describes the basic principles of process control and studies the operating situations of helium plants, with emphasis on high level efficiency. A major issue is helium purity, and the book explains why helium is polluted, how to purify it and then how to check its purity, to ensure that all components are filled with pure helium prior to starting. Although the intention of the book is not to design thermodynamic cycles, it is of interest to a designer or operator of a cryogenic system to perform some simplified calculations to get an idea of how components or systems are behaving. Throughout the book, such calculations are generally performed using Microsoft® Excel and the Gaspak® or Hepak® software. Thomas Register of American Manufacturers and Thomas Register Catalog File Vols. for 1970-71 includes manufacturers' catalogs. Industrial High Pressure Applications Processes, Equipment, and Safety *John Wiley & Sons* Industrial high pressure processes open the door to many reactions that are not possible under 'normal' conditions. These are to be found in such different areas as polymerization, catalytic reactions, separations, oil and gas recovery, food processing, biocatalysis and more. The most famous high pressure process is the so-called Haber-Bosch process used for fertilizers and which was awarded a Nobel prize. Following an introduction on historical development, the current state, and future trends, this timely and comprehensive publication goes on to describe different industrial processes, including methanol and other catalytic syntheses, polymerization and renewable energy processes, before covering safety and equipment issues. With its excellent choice of industrial contributions, this handbook offers high quality information not found elsewhere, making it invaluable reading for a broad and interdisciplinary audience. Compressed Air Systems in the European Union Energy, Emissions, Savings Potential and Policy Actions *Stretch Blow Molding* *William Andrew* Stretch Blow Molding, Third Edition, provides the latest on the blow molding process used to produce bottles of the strength required for carbonated drinks. In this updated handbook, Ottmar Brandau introduces the technology of stretch blow molding, explores practical aspects of designing and running a production line, and looks at practical issues for quality control and troubleshooting. As an experienced engineer, manager, and consultant, Brandau's focus is on optimizing the production process, improving quality, and reducing cycle time. In this new edition, the author has thoroughly reviewed the content of the book, providing updates on new developments in stretch blow molding, including neck sizes, new equipment and processes, and the economics of the process. The book is a thoroughly practical handbook which provides engineers and managers with the toolkit to improve production and engineering aspects in their own businesses, allowing them to save money, increase output, and improve competitiveness by adopting new technologies. Provides knowledge and understanding of the latest technological and best practice developments in stretch blow molding Includes money saving, practical strategies to optimize the production process, improve quality, and reduce cycle times Provides a guide to the training of operators, as well as tactics on how to troubleshoot when products are faulty, productivity is low, or machinery is not operating as expected Future Trends in Production Engineering Proceedings of the First Conference of the German Academic Society for Production Engineering (WGP), Berlin, Germany, 8th-9th June 2011 *Springer Science & Business Media* To meet and adapt to the current and future trends and issues in technology and society, the science committee of The German Academic Society for Production Engineering (WGP) continues to define future topics for production technology. These themes represent not only the key focus for the scientific work of the WGP, but also the central themes of the first annual conference in June 2011, whose paper is publically available in this volume. Such themes, including electric mobility, medical technology, lightweight construction, and resource efficiency, as well as mass production ability have all been identified as future, large-scale, and long-term drivers of change. Future trends influence changes sustainably and fundamentally; they permeate society, technology, economics, and value systems and have an effect in virtually all areas of life. The WGP has, as part of its research, established for itself the goal of not only observing these emerging changes, but also of supervising and influencing their development in order to ensure steady progress, secure sustainability, and shape the future. High Performance Through Business Process Management Strategy Execution in a Digital World *Springer* This management book presents value-driven business process management as a successful discipline to turn strategy into people- and technology-based execution, quickly and at minimal risk. It shows how to achieve high performance successfully in a digital business environment. Static business models do not keep pace with the dynamic changes in our digital world. Organizations need a management approach that fits this environment and capitalizes on its opportunities while minimizing the related risks. They need to execute their business strategy fast and reliably. In effect, they have to know how and when to modify or enhance their business processes, which processes are the best candidates for intervention, and how to move rapidly from strategy to execution. This means organizations need to establish business process management as a real management discipline. The importance of process innovation, digital technology and people aspects, process governance, internationalization, emerging processes and the unique situation in mid-market organizations are some of the key topics discussed in this book. It ends with a comprehensive case study and a discussion about what process

engineers can learn from jazz musicians. **Systematic Indexing** *Franklin Classics* This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. **The Critical Few Energize Your Company's Culture by Choosing What Really Matters** *Berrett-Koehler Publishers* In a global survey by the Katzenbach Center, 80 percent of respondents believed that their organization must evolve to succeed. But a full quarter of them reported that a change effort at their organization had resulted in no visible results. Why? The fate of any change effort depends on whether and how leaders engage their culture: the self-sustaining patterns of behaving, feeling, thinking, and believing that determine how things are done in an organization. Culture is implicit rather than explicit, emotional rather than rational—that's what makes it so hard to work with, but that's also what makes it so powerful. For the first time, this book lays out the Katzenbach Center's proven methodology for identifying your culture's three most critical elements: traits, characteristics that are at the heart of people's emotional connection to what they do; keystone behaviors, actions that would lead your company to succeed if they were replicated at a greater scale; and authentic informal leaders, people who have a high degree of "emotional intuition" or social connectedness. By leveraging these critical few elements, you can tap into a source of catalytic change within your organization. People will make an emotional, not just a rational, commitment to new initiatives. You will elicit enthusiasm and creativity and build the kind of powerful company that people recognize for its innate value and effectiveness. **Surface Production Operations: Volume IV: Pumps and Compressors** *Gulf Professional Publishing* For over thirty years, the Surface Production Operations Series has taken the guess work out of the design, selection, installation, operation, testing, and troubleshooting of surface production equipment. The fourth volume in this series, **Pumps and Compressors** is directed to both entry-level personnel and practicing professionals looking for an up-to-date reference book on managing, evaluating, sizing, selecting, installing, operating and maintaining pump and compressor systems. Packed with examples drawn from years of design and field experience, this reference features many charts, tables, equations, diagrams, and photographs to illustrate the basic applications including pump hydraulics, centrifugal and reciprocating compressor applications, compressor performance maps, pump performance curves, pump and compressor testing and installation, and many more critical topics. Packed with practical solutions **Surface Production Operations: Pumps and Compressors** delivers an essential design and specification reference for today's engineers. Covers application and performance considerations for all types of pumps and compressors **Delivers hands-on manual for applying mechanical and physical principles to select and design pump and compressor systems, supported by many tables and diagrams** Gives expert advice on how to apply design codes and standards such as API 610, API 674, ANSI B78.1, API 617, API 11P, API RP 14C and the Hydraulic Institute **Cost Savings Through Energy Efficiency Construction Contracts** *McGraw-Hill Science/Engineering/Math* \* Written in layman's terms, this all-you-need-to-know text focuses on the most important aspect of contract administration \* Covers many legal issues related to construction law and provides essential background material about fundamentals \* Examples of filled out documents help clarify the key points **The Australian Official Journal of Trademarks Clinical Application of Neuromuscular Techniques The upper body Maintenance Engineering Handbook** *McGraw Hill Professional* **Stay Up to Date on the Latest Issues in Maintenance Engineering** The most comprehensive resource of its kind, **Maintenance Engineering Handbook** has long been a staple for engineers, managers, and technicians seeking current advice on everything from tools and techniques to planning and scheduling. This brand-new edition brings you up to date on the most pertinent aspects of identifying and repairing faulty equipment; such dated subjects as sanitation and housekeeping have been removed. **Maintenance Engineering Handbook** has been advising plant and facility professionals for more than 50 years. Whether you're new to the profession or a practiced veteran, this updated edition is an absolute necessity. New and updated sections include: **Belt Drives, provided by the Gates Corporation Repair and Maintenance Cost Estimation Ventilation Fans and Exhaust Systems 10 New Chapters on Maintenance of Mechanical Equipment Inside:** • Organization and Management of the Maintenance Function • Maintenance Practices • Engineering and Analysis Tools • Maintenance of Facilities and Equipment • Maintenance of Mechanical Equipment • Maintenance of Electrical Equipment • Instrumentation and Reliability Tools • Lubrication • Maintenance Welding • Chemical Corrosion Control and Cleaning **Intelligent Condition Based Monitoring For Turbines, Compressors, and Other Rotating Machines** *Springer* This book discusses condition based monitoring of rotating machines using intelligent adaptive systems. The book employs computational intelligence and fuzzy control principles to deliver a module that can adaptively monitor and optimize machine health and performance. This book covers design and performance of such systems and provides case studies and data models for fault detection and diagnosis. The contents cover everything from optimal sensor positioning to fault diagnosis. The principles laid out in this book can be applied across rotating machinery such as turbines, compressors, and aircraft engines. The adaptive fault diagnostics systems presented can be used in multiple time and safety critical applications in domains such as aerospace, automotive, deep earth and deep water exploration, and energy. **Grid-Scale Energy Storage Systems and Applications** *Academic Press* **Grid-Scale Energy Storage Systems and Applications** provides a timely introduction to state-of-the-art technologies and important demonstration projects in this rapidly developing field. Written with a view to real-world applications, the authors describe storage technologies and then cover operation and control, system integration and battery management, and other topics important in the design of these storage systems. The rapidly-developing area of electrochemical energy storage technology and its implementation in the power grid is covered in particular detail. Examples of Chinese pilot projects in new energy grids and micro grids are also included. Drawing on significant Chinese results in this area, but also including data from abroad, this will be a valuable reference on the development of grid-scale energy storage for engineers and scientists in power and energy transmission and researchers in academia. Addresses not only the available energy storage technologies, but also topics significant for storage system designers, such as technology management, operation and control, system integration and economic assessment **Draws on the wealth of Chinese research into energy storage and describes important Chinese energy storage demonstration projects** Provides practical examples of the application of energy storage technologies that can be used by engineers as references when designing new systems **Control Valve Application Technology Techniques and Considerations for Properly Selecting the Right Control Valve** In this book, the author shares his expertise gained over the last 35 years of applying and selecting control valves for a broad range of applications. The material presented is based on the content of control valve application, selection and training seminars he has presented to a variety of control valve users. Topics include: \*How to properly size and select a control valve \*Selecting the right valve flow characteristic to match the process \*Control valve installed characteristics and installed gain \*How analysis of installed gain can aid in proper control valve selection \*Behavior of both gas flow and liquid flow in control valves, including noise reduction methods \*Prediction and reduction of cavitation damage in liquid applications \*Impact of the control valve on undesired process variability \*Valve performance recommendations **ADVANCES in cryogenic engineering materials**