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| Autore | Perez Robert X. |
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| Nota di contenuto | Cover -- Title Page -- Copyright Page -- Contents -- Preface -- Chapter 1 Principles of Centrifugal Process Pumps -- Pump Performance: Head and Flow -- Operation at Zero Flow -- Impellers and Rotors -- The Meaning of Specific Speed -- Process Pump Types -- Process Pump Mechanical Response to Flow Changes -- Recirculation and Cavitation -- The Importance of Suction Specific Speed -- What We Have Learned -- References -- Chapter 2 Pump Selection and Industry Standards -- Why Insist on Better Pumps -- ANSI and ISO vs. API Pumps -- What We Have Learned -- References -- Chapter 3 Foundations and Baseplates -- Securing Pumps in Place - With One Exception -- Why Not to Install Pump Sets in the As-Shipped Condition -- Conventional vs. Prefilled Baseplate Installations -- Epoxy Prefilled Baseplates -- How to Proceed If There Is No Access to Specialist Firms -- What We Have Learned: Checklist of Foundation and Baseplate Topics -- References -- Chapter 4 Piping, Stationary Seals, and Gasketing -- Pipe Installation and Support -- Sliding Supports and Installation Sequence Deserve Special Attention -- Monitoring Pipe Stress While Bolting Up -- Flange Leakage -- What to Do Prior to Gasket Insertion -- Spiral Wound and Kammprofile |

Gaskets -- Pipe, Hydraulic Tubing or Flexible Connections? -- Gusseting -- Concentric vs. Eccentric Reducers -- Vibration Problems in Piping -- Proven Ways to Control Piping Vibration -- Addressing Piping Vibration Issues -- Small Bore Piping Issues -- What We Have Learned -- References -- Chapter 5 Rolling Element Bearings -- Bearing Selection Overview and Windage As a Design Problem -- Radial vs. Axial (Thrust) Bearings -- Oil Levels, Multiple Bearings and Different Bearing Orientations -- Upgrading and Retrofit Opportunities -- Bearing Cages -- Bearing Preload and Clearance Effects -- Bearing Dimensions and Mounting Tolerances.

What We Have Learned -- References -- Chapter 6 Lubricant Application and Cooling Considerations -- Lubricant Level and Oil Application -- Issues with Oil Rings -- Pressure and Temperature Balance in Bearing Housings -- Cooling Not Needed on Pumps with Rolling Element Bearings -- Oil Delivery by Constant Level Lubricators -- Black Oil -- Lubricant Application As Oil Mist (Oil Fog) -- Desiccant Breathers and Expansion Chambers -- What We Have Learned -- References -- Chapter 7 Lubricant Types and Key Properties -- Lubricant Viscosities -- When and Why High Film Strength Synthetic Lubricants Are Used -- Lubricants for Oil Mist Systems -- What We Have Learned -- References -- Chapter 8 Bearing Housing Protection and Cost Justification -- Noncontacting Bearing Protector Seals -- Contacting Bearing Protector Seals -- How Venting and Housing Pressurization Affect Bearing Protector Seals -- Cost Justification Overview -- Advanced Bearing Housing (Bearing Protector Seal) Summary -- What We Have Learned -- References -- Chapter 9 Mechanical Sealing Options for Long Life -- Still Using Packing? -- General Overview of Mechanical Seals -- All Flush Plans Have Advantages and Disadvantages -- Always Obtain the Full Picture -- Seal Chamber Pumping Ring (Circulating Device) Technologies -- Lessons Apply to Many Services -- What We Have Learned -- References -- Chapter 10 Pump Operation -- Starting Centrifugal Pumps -- Surveillance of Pump Operation -- Optimum Pump Switching Interval -- Centrifugal Pump Shutdown -- Addressing Post Start-up Issues -- Avoiding Parallel Pump Operating Problems -- What We Have Learned -- References -- Chapter 11 Impeller Modifications and Pump Maintenance -- Maintenance Essentials -- Superior Maintenance Requires Upgrading -- Impeller Upgrading with Inducers -- Distance from Impeller Tip to Stationary Internal Casing Components. Impeller Trimming -- Impeller Wear Rings -- Vane Tip Overfiling and Underfiling -- Carbon Graphite Wear Rings and Bushings -- What We Have Learned -- References -- Chapter 12 Lubrication Management -- How Bad Is Water Contamination? -- Avoid Solids Contamination -- Avoid Questionable Oil Storage and Transfer Practices -- Periodic Audits -- What We Have Learned -- References -- Chapter 13 Pump Condition Monitoring: Pump Vibration, Rotor Balance, and Effect on Bearing Life -- Vibration and Its Effect on Bearing Life -- Monitoring Methods Differ -- Vibration Acceptance Limits -- Causes of Excessive Vibration -- Rotor Balancing -- What We Have Learned -- References -- Chapter 14 Drivers, Couplings, and Alignment -- Driver Selection -- Coupling Selection and Installation -- Installation and Removal -- Alignment and Quality Criteria -- Consequences of Misalignment -- Thermal Rise and Predefinition of Growth -- What We Have Learned -- References -- Chapter 15 Fits, Dimensions, and Related Misunderstandings -- Low Incremental Cost of Better Pumps -- Pump Pedestals and Bearing Housings Should Not Be Water-Cooled -- Summary of Bearing-Related Issues -- Constant Level Lubricators -- Bearing Housing Protector Seals ("Bearing Isolators") -- Motor

Lubrication Summary -- Mechanical Seal Issues -- Hydraulic Issues -- Impeller Hydraulics -- Mechanical Improvement or Upgrade Options -- Process Pump Repair Dimensions -- What We Have Learned -- References -- Chapter 16 Using Failure Statistics and Root Cause Analysis Findings to Guide Reliability Improvement Efforts -- Mean-Time-Between Failures and Repair Cost Calculations -- Performing Your Own Projected MTBF Calculations -- Older Pumps vs. Newer Pumps -- Reliability Reviews Start Before Purchase -- Structured Failure Analysis Strategies Solve Problems -- The "FRETT" Approach to Eradicating Repeat Failures of Pumps.
Analyzing Pump Failure Data -- Why We Use Reliability Tools -- Cumulative Failure Trends -- Addressing Pump "Bad Actors" -- What We Have Learned -- References -- Chapter 17 Repair, Replace, or Modify? -- Repair or Replace? -- Repair and Spare Part Philosophies -- Making the Business Case for Centrifugal Pump Upgrades -- Payback Time Examples -- Example 17.1 -- Example 17.2 -- Some Final Advice on Upgrades -- Centrifugal Pump Hydraulic Rerates -- Rerate Case Study -- Replacing Existing Pump with an Entirely Different Model Pump -- What We Have Learned -- References -- Chapter 18 Centrifugal Pump Monitoring Strategies -- Pump Monitoring Recommendations Based on Criticality -- How to Use This Matrix -- Example 18.2: High Production Impact (Follow dashed arrows in Table 18.3) -- A Survey of Vibration Sensors -- Wireless Sensors -- Wired Sensors with Dynamic Outputs -- Wired Loop-Powered Vibration Transmitters with 4-20 mA Outputs -- Evaluating Sensor Information -- Vibration Monitoring Analysis Requirements -- More on Sensor Technology -- What We Have Learned -- References -- Chapter 19 Final Thoughts -- Index -- EULA.

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| Sommario/riassunto | Circulation and imitation are key factors in shaping the material world. The authors in this volume explore how technical knowledge, immaterial desires, and political agendas impact the production and consumption of visual and material culture across times and places. Their essays map multidirectional transactions for cultural goods in which source countries can be positioned at the center. Rhapsodic - literally to stitch or weave songs - paired with objects - from thrown against - intertwines complexity and action. Rhapsodic objects thus beckons to the layered narratives of the objects themselves, their making, and their reception over time. The concept further underlines their potential to express creativity, generate emotion, and reveal histories - often tainted with violence. |

Zirkulation und Nachahmung haben einen wesentlichen Einfluss auf die Gestaltung der materiellen Welt. Die Beiträge des Bandes untersuchen, wie technisches Wissen, immaterielle Wünsche und politische Agenden die Produktion und Rezeption der visuellen und materiellen Kultur im Wandel der Zeit und Orte prägten. Sie gehen den Wanderungen von Kulturgütern unter besonderer Berücksichtigung ihrer Entstehungskontexte nach. Mit dem Begriff des "rhapsodischen Objektes" werden dabei die vielschichtigen, nicht immer in einem Zusammenhang stehenden Erzählungen der Objekte angesprochen.
