1. Record Nr. UNINA9910781949103321

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| Autore | Zheng Yangwen |
| Titolo | China on the sea [[electronic resource] /] / by Zheng Yangwen |
| Pubbl/distr/stampa | Leiden ; ; Boston, : Brill, c2012 |
| ISBN | 1-283-31056-2<br>9786613310569<br>90-04-19478-9 |
| Descrizione fisica | 1 online resource (372 p.) |
| Collana | China studies ; ; v. 21 |
| Disciplina | 387.50951/0903 |
| Soggetti | Merchant marine - China - History<br>China Foreign economic relations<br>China Commerce Foreign countries<br>China History Qing dynasty, 1644-1912 |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Facing the seas -- "The inconsistency of the seas" -- Feeding China -- Cette merveilleuse machine -- Les palais europeens -- "Wind of the west" -- Pattern and variation: indigenisation -- "Race for oriental opulence" -- Conclusion. |
| Sommario/riassunto | Generations of Chinese scholars have made China synonymous with the Great Wall and presented its civilization as fundamentally land-bound. This volume challenges this perspective, demonstrating that China was not a “Walled Kingdom”, certainly not since the Yongjia Disturbance in 311. China reached out to the maritime world far more actively than historians have acknowledged, while the seas and what came from the seas—from Islam, fragrances and Jesuits to maize, opium and clocks—significantly changed the course of history, and have been of inestimable importance to China since the Ming. This book integrates the maritime history of China, especially the Qing period, a subject which has hitherto languished on the periphery of scholarly analysis, into the mainstream of current historical narrative. It was the seas that made Tang China a “Cosmopolitan Empire” (Mark Lewis), the Song dynasty China’s “Greatest Age” (John Fairbank), China at 1600 “the largest and most sophisticated of all unified realms on earth” (Jonathan |

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| | | Spence), and the reign of the three Qing emperors (Kangxi, Yongzheng and Qianlong) China's "last golden age" (Charles Hucker). |
| 2. | Record Nr. | UNINA9910830162703321 |
| | Autore | Sofronas Anthony |
| | Titolo | Analytical troubleshooting of process machinery and pressure vessels [[electronic resource] ] : including real-world case studies / / Anthony Sofronas |
| | Pubbl/distr/stampa | Hoboken, N.J., : John Wiley & Sons, c2006 |
| | ISBN | 1-280-31135-5<br>9786610311354<br>0-470-23188-2<br>0-471-75203-7<br>0-471-75202-9 |
| | Descrizione fisica | 1 online resource (374 p.) |
| | Disciplina | 621.8/16<br>621.816<br>660.2804 |
| | Soggetti | Machinery - Maintenance and repair<br>Plant maintenance |
| | Lingua di pubblicazione | Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
| | Note generali | Description based upon print version of record. |
| | Nota di bibliografia | Includes bibliographical references (p. 345-347) and index. |
| | Nota di contenuto | ANALYTICAL TROUBLESHOOTING OF PROCESS MACHINERY AND PRESSURE VESSELS; CONTENTS; Preface; 1 Introduction; 2 Strength of Materials; 2.1 Load Calculations; 2.2 Stress Calculations; 2.2.1 Axial Stress; 2.2.2 Shear Stress; 2.2.3 Bending Stress; 2.2.4 Torsional Stress; 2.2.5 Combined Stresses; 2.2.6 Thermal Stresses; 2.2.7 Transient Temperatures and Stresses; 2.2.8 High-Temperature Creep; 2.2.9 Shell Stresses; 2.3 Piping Thermal Forces, Moments, and Frequencies; 2.3.1 Piping Failures; 2.4 Allowable and Design Stresses; 2.5 Fatigue Due to Cyclic Loading; 2.6 Elongation and Deflection Calculations<br>2.7 Factor of Safety2.8 Case History: Agitator Steady Bearing Loading; 2.8.1 Additional Agitator Guidelines (Single Impeller); 2.9 Case History: |

Extruder Shaft Failure; 2.10 Dynamic Loading; 2.10.1 Centrifugal Force; 2.10.2 Inertias and WR(2); 2.10.3 Energy Relationships; 2.11 Case History: Centrifuge Bearing Failures; 2.12 Case History: Bird Impact Force on a Windscreen; 2.13 Case History: Torsional Impact on a Propeller; 2.14 Case History: Startup Torque on a Motor Coupling; 2.15 Case History: Friction Clamping Due to Bolting; 2.16 Case History: Failure of a Connecting Rod in a Race Car
2.17 Bolting2.17.1 Holding Capacity; 2.17.2 Limiting Torque; 2.17.3 Bolt Elongation and Relaxation; 2.17.4 Torquing Methods; 2.17.5 Fatigue of Bolts; 2.17.6 Stripping Strength of Threads; 2.17.7 Case History: Power Head Gasket Leak; 2.18 Ball and Roller Bearing Life Estimates; 2.18.1 Case History: Bearing Life of a Shaft Support; 2.18.2 Coupling Offset and Bearing Life; 2.19 Hydrodynamic Bearings; 2.19.1 Shell and Pad Failures; 2.20 Gears; 2.20.1 Gear Acceptability Calculations; 2.20.2 Case History: Uprate Acceptability of a Gear Unit; 2.21 Interference Fits
2.21.1 Keyless Hydraulically Fitted Hubs2.21.2 Case History: Taper Fit Holding Ability; 2.21.3 Case History: Flying Hydraulically Fitted Hub; 2.22 Strength of Welds; 2.23 Fatigue of Welds; 2.24 Repair of Machinery; 2.24.1 Shafts; 2.24.2 Housings and Cases; 2.24.3 Gearboxes; 2.24.4 Sleeve Bearings and Bushing Clearances; 2.24.5 Alignments; 2.24.6 Acceptable Coupling Offset and Angular Misalignment; 2.24.7 Vibration Measurements; 2.25 Interpreting Mechanical Failures; 2.25.1 Failures with Axial, Bending, and Torsional Loading; 2.25.2 Gear Teeth Failures; 2.25.3 Spring Failures
2.25.4 Bolt Failures2.25.5 Bearing Failures; 2.25.6 Reading a Bearing; 2.25.7 Large Gearbox Keyway and Shaft Failures; 2.26 Case History: Sizing a Bushing Running Clearance; 2.27 Case History: Galling of a Shaft in a Bushing; 2.28 Case History: Remaining Fatigue Life with Cyclic Stresses; 2.29 Procedure for Evaluating Gasketed Joints; 2.30 Gaskets in High-Temperature Service; 2.31 O-Ring Evaluation; 2.32 Case History: Gasket That Won't Pass a Hydrotest; 2.33 Case History: Heat Exchanger Leak Due to Temperature; 2.34 Equipment Wear; 2.35 Case History: Excessive Wear of a Ball Valve
3 Vibration Analysis

Sommario/riassunto

A highly practical troubleshooting tool for today's complex processing industryEvolving industrial technology-driven by the need to increase safety while reducing production losses-along with environmental factors and legal concerns has resulted in an increased emphasis on sound troubleshooting techniques and documentation. Analytical Troubleshooting of Process Machinery and Pressure Vessels provides both students and engineering professionals with the tools necessary for understanding and solving equipment problems in today's complex processing environment.Drawing on forty yea