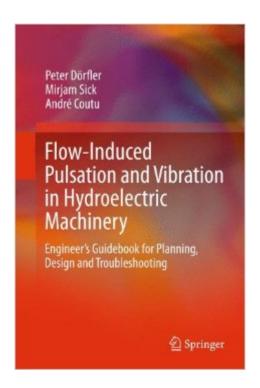
The book was found

Flow-Induced Pulsation And Vibration In Hydroelectric Machinery: Engineer's Guidebook For Planning, Design And Troubleshooting





Synopsis

Since the 1970â TMs, an increasing amount of specialized research has focused on the problems created by instability of internal flow in hydroelectric power plants. However, progress in this field is hampered by the interÂ-disciplinary nature of the subject, between fluid mechanics, structural mechanics and hydraulic transients. Flow-induced Pulsation and Vibration in Hydroelectric Machinery provides a compact guidebook explaining the many different underlying physical mechanisms and their possible effects. Typical phenomena are described to assist in the proper diagnosis of problems and various key strategies for solution are compared and considered with support from practical experience and real-life examples. The link between state-of the-art CFD computation and notorious practical problems is discussed and quantitative data is provided on normal levels of vibration and pulsation so realistic limits can be set for future projects. Current projects are also addressed as the possibilities and limitations of reduced-scale model tests for prediction of prototype performance are explained. Engineers and project planners struggling with the practical problems will find Flow-induced Pulsation and Vibration in Hydroelectric Machinery to be a comprehensive and convenient reference covering key topics and ideas across a range of relevant disciplines.

Book Information

Hardcover: 244 pages

Publisher: Springer; 2013 edition (August 28, 2012)

Language: English

ISBN-10: 1447142519

ISBN-13: 978-1447142515

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars Â See all reviews (1 customer review)

Best Sellers Rank: #3,481,816 in Books (See Top 100 in Books) #51 in Books > Engineering &

Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable >

Hydroelectric #750 in Books > Engineering & Transportation > Engineering > Industrial,

Manufacturing & Operational Systems > Industrial Design > Products #1436 in Books >

Engineering & Transportation > Engineering > Mechanical > Machinery

Customer Reviews

Very good!

Download to continue reading...

Flow-Induced Pulsation and Vibration in Hydroelectric Machinery: Engineer's Guidebook for Planning, Design and Troubleshooting Machinery's Handbook 25: A Reference Book for the Mechanical Engineer, Designer, Manufacturing Engineer, Draftsman, Toolmaker, and Machinist Flow-Induced Vibrations: An Engineering Guide (Dover Civil and Mechanical Engineering) Flow-Induced Vibrations, Second Edition: Classifications and Lessons from Practical Experiences Light Scattering, Size Exclusion Chromatography and Asymmetric Flow Field Flow Fractionation: Powerful Tools for the Characterization of Polymers, Proteins and Nanoparticles Teach'n Beginning Offensive Basketball Drills, Plays, and Games Free Flow Handbook (Series 4 Free Flow books 25) Windows 10 Troubleshooting: Windows 10 Manuals, Display Problems, Sound Problems, Drivers and Software: Windows 10 Troubleshooting: How to Fix Common Problems ... Tips and Tricks, Optimize Windows 10) Easy Thermostat Wiring & Troubleshooting Guide: Simple HVAC, Furnace, and Air Conditioning; Thermostat Wiring and Troubleshooting Guide for Homeowners (HelpItBroke.com - Easy HVAC Guides Book 3) Outboard Engines: Maintenance, Troubleshooting, and Repair, Second Edition: Maintenance, Troubleshooting, and Repair How to Build and Operate Your Own Small Hydroelectric Plant Small Hydroelectric Engineering Practice Design of Machinery: An Introduction to the Synthesis and Analysis of Mechanisms and Machines Design of Machinery with Student Resource DVD (McGraw-Hill Series in Mechanical Engineering) Design of Machinery with Student Resource DVD ISO 13849-1:2006, Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design Avian Architecture: How Birds Design, Engineer, and Build To Engineer Is Human: The Role of Failure in Successful Design Codex Alternus: A Research Collection Of Alternative and Complementary Treatments for Schizophrenia, Bipolar Disorder and Associated Drug-Induced Side Effects (Revised Edition) Heparin-Induced Thrombocytopenia, 2nd Edition (Fundamental and Clinical Cardiology) Heparin-Induced Thrombocytopenia (Fundamental and Clinical Cardiology)

Dmca