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Pubbl/distr/stampa	Chichester, England, : John Wiley, 2005
ISBN	1-280-28756-X 9786610287567 0-470-02457-7 0-470-02431-3
Descrizione fisica	1 online resource (309 p.)
Altri autori (Persone)	PichlerDieter
Disciplina	620.3 624.2/52 624.252
Soggetti	Bridges - Vibration Electronic books.
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	AMBIENT VIBRATION MONITORING; Contents; PREFACE; ACKNOWLEDGEMENTS; SUMMARY; 1 INTRODUCTION; 1.1 Scope of Applications; 1.2 Laws and Regulations; 1.3 Theories on the Development of the AVM; 2 OBJECTIVES OF APPLICATIONS; 2.1 System Identification; 2.1.1 Eigenfrequencies and Mode Shapes; 2.1.2 Damping; 2.1.3 Deformations and Displacements; 2.1.4 Vibration Intensity; 2.1.5 Trend Cards; 2.2 Stress Test; 2.2.1 Determination of Static and Dynamic Stresses; 2.2.2 Determination of the Vibration Elements; 2.2.3 Stress of Individual Structural Members; 2.2.4 Determination of Forces in Tendons and Cables 2.3 Assessment of Stresses2.3.1 Structural Safety; 2.3.2 Structural Member Safety; 2.3.3 Maintenance Requirements and Intervals; 2.3.4 Remaining Operational Lifetime; 2.4 Load Observation (Determination of External Influences); 2.4.1 Load Collective; 2.4.2 Stress Characteristic; 2.4.3 Verification of Load Models; 2.4.4 Determination of Environmental Influences; 2.4.5 Determination of Specific Measures; 2.4.6 Check on the Success of Rehabilitation Measures; 2.4.7 Dynamic

Effects on Cables and Tendons; 2.4.8 Parametric Excitation; 2.5 Monitoring of the Condition of Structures  
2.5.1 Assessment of Individual Objects 2.5.2 Periodic Monitoring; 2.5.3 BRIMOS® Recorder; 2.5.4 Permanent Monitoring; 2.5.5 Subsequent Measures; 2.6 Application of Ambient Vibration Testing to Structures for Railways; 2.6.1 Sleepers; 2.6.2 Noise and Vibration Problems; 2.7 Limitations; 2.7.1 Limits of Measuring Technology; 2.7.2 Limits of Application; 2.7.3 Limits of Analysis; 2.7.4 Perspectives; References; 3 FEEDBACK FROM MONITORING TO BRIDGE DESIGN; 3.1 Economic Background; 3.2 Lessons Learned; 3.2.1 Conservative Design; 3.2.2 External versus Internal Pre-stressing  
3.2.3 Influence of Temperature 3.2.4 Displacement; 3.2.5 Large Bridges versus Small Bridges; 3.2.6 Vibration Intensities; 3.2.7 Damping Values of New Composite Bridges; 3.2.8 Value of Patterns; 3.2.9 Understanding of Behaviour; 3.2.10 Dynamic Factors; References; 4 PRACTICAL MEASURING METHODS; 4.1 Execution of Measuring; 4.1.1 Test Planning; 4.1.2 Levelling of the Sensors; 4.1.3 Measuring the Structure; 4.2 Dynamic Analysis; 4.2.1 Calculation Models; 4.2.2 State of the Art; 4.3 Measuring System; 4.3.1 BRIMOS®; 4.3.2 Sensors; 4.3.3 Data-Logger; 4.3.4 Additional Measuring Devices and Methods  
4.4 Environmental Influence 4.5 Calibration and Reliability; 4.6 Remaining Operational Lifetime; 4.6.1 Rainflow Algorithm; 4.6.2 Calculation of Stresses by FEM; 4.6.3 S-N Approach and Damage Accumulation; 4.6.4 Remaining Service Lifetime by Means of Existing Traffic Data and Additional Forward and Backward Extrapolation; 4.6.5 Conclusions and Future Work; References; 5 PRACTICAL EVALUATION METHODS; 5.1 Plausibility of Raw Data; 5.2 AVM Analysis; 5.2.1 Recording; 5.2.2 Data Reduction; 5.2.3 Data Selection; 5.2.4 Frequency Analysis, ANPSD (Averaged Normalized Power Spectral Density)  
5.2.5 Mode Shapes

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## Sommario/riassunto

In-operation vibration monitoring for complex mechanical structures and rotating machines is of key importance in many industrial areas such as aeronautics (wings and other structures subject to strength), automobile (gearbox mounting with a sports car body), rail transportation, power engineering (rotating machines, core and pipes of nuclear power plants), and civil engineering (large buildings subject to hurricanes or earthquakes, bridges, dams, offshore structures). Tools for the detection and the diagnosis of small changes in vibratory characteristics are particularly useful to set up a pr

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2. Record Nr.	UNISA996199190603316
Titolo	Israel affairs
Pubbl/distr/stampa	Ilford, Essex, U.K., : Frank Cass & Co., 1994- Abingdon, Oxon, UK, : Taylor & Francis
ISSN	1743-9086
Disciplina	956.9405405
Soggetti	Israël (staat) FOREIGN RELATIONS POLITICAL CONDITIONS ISRAEL JEW S History Periodicals. Israel History 1993- Periodicals Israel
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Some issues also have distinctive titles.

3. Record Nr.	UNINA9910907065703321
Titolo	Toledo
Pubbl/distr/stampa	Toledo, Ohio, : Dr. G. Farkas, 1931-
Descrizione fisica	v
Soggetti	Hungarians - United States Hungarians Newspapers. United States
Lingua di pubblicazione	Hungarian
Formato	Materiale a stampa
Livello bibliografico	Periodico
4. Record Nr.	UNINA9910686774303321
Autore	Larcher Gerhard <1946->
Titolo	The Art of Quantitative Finance Vol.1 : Trading, Derivatives and Basic Concepts // by Gerhard Larcher
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-23873-7
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (532 pages)
Collana	Springer Texts in Business and Economics, , 2192-4341
Disciplina	332.0151
Soggetti	Financial engineering Capital market Social sciences - Mathematics Financial risk management Financial Engineering Capital Markets Mathematics in Business, Economics and Finance Risk Management
Lingua di pubblicazione	Inglese
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Nota di bibliografia

Includes bibliographical references.

Nota di contenuto

Basic products and interest calculations -- Derivatives and trading in derivatives, basic concepts and strategies -- Basics of derivative valuation -- The Wiener Stock Price Model and the basic principles of Black-Scholes theory.

Sommario/riassunto

This textbook offers an easily understandable introduction to the fundamental concepts of financial mathematics and financial engineering. The author presents and discusses the basic concepts of financial engineering and illustrates how to trade and to analyze financial products with numerous examples. Special attention is given to the valuation of basic financial derivatives. In the final section of the book, the author introduces the Wiener Stock Price Model and the basic principles of Black-Scholes theory. The book's aim is to introduce readers to the basic techniques of modern financial mathematics in a way that is intuitive and easy to follow, and to provide financial mathematicians with insights into practical requirements when applying financial mathematical techniques in the real world. .