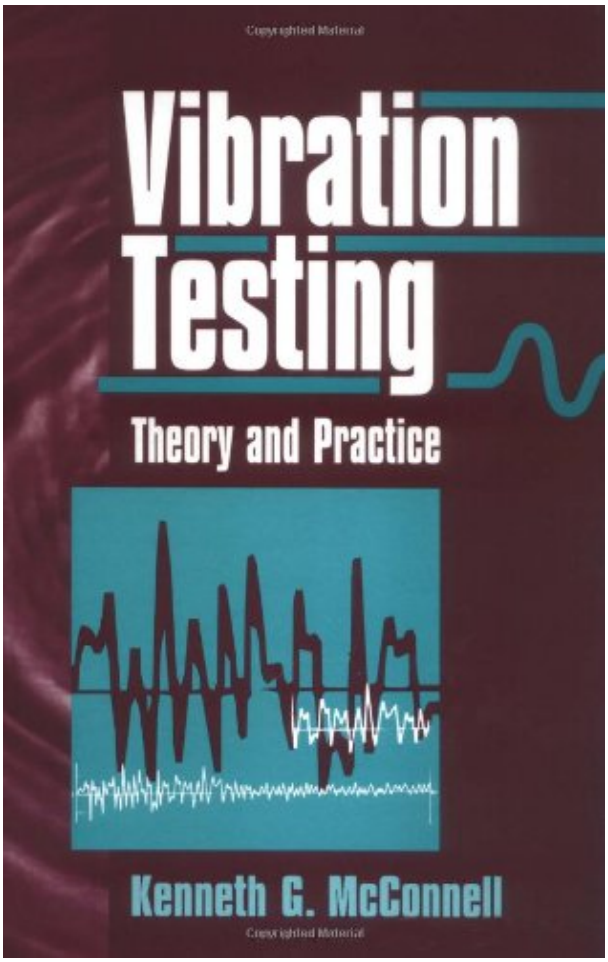
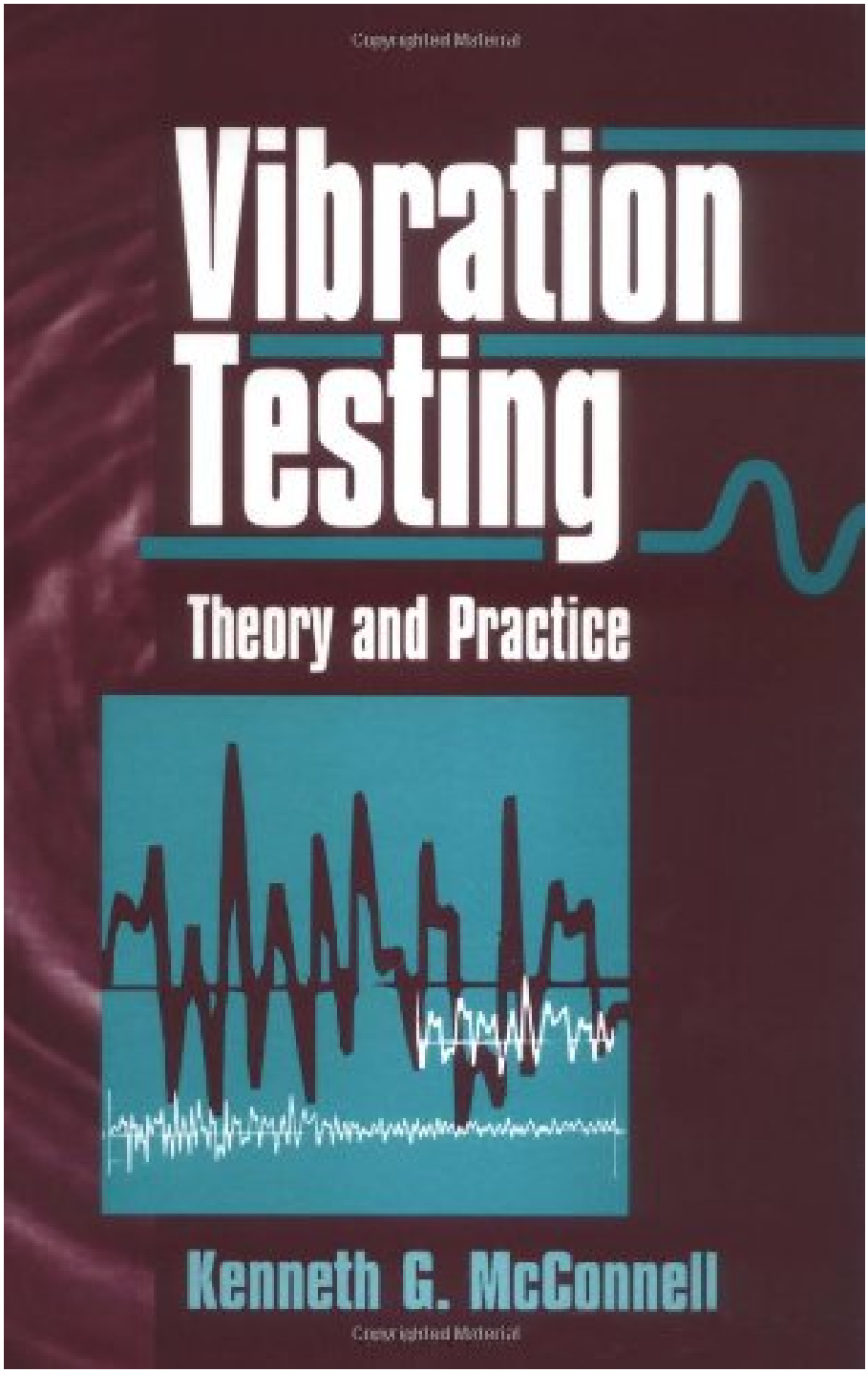
VIBRATION TESTING: THEORY AND PRACTICE BY KENNETH G. MCCONNELL, PAULO S. VAROTO





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Review

"…is a good foundational text for engineers concerned with component vibration testing as it might relate to failure analysis, qualification testing, reliability testing, and machinery diagnostics. The book is well written and makes the presented concepts easy to understand. I recommend it both as an introduction to laboratory testing techniques for the relative novice and as a reference for experienced practitioners in the field." (Noise Control Engineering, Jan-Feb 2009)

From the Publisher

Based on the author's 30 years of experience and eight years of research, this book provides an integrated overview of the important elements involved in conducting vibration tests in the field and laboratory. Describes electrical and mechanical models of the parameters that affect transducer performance to offer an understanding of an instrument's limitations and how users can influence their behavior. Thoroughly discusses the digital frequency analyzer's operation and the dynamic performance of electrodynamic vibration exciters with either current or voltage mode amplifiers. Explores the practical aspects of running such tests as step relaxation, impulse, sinusoidal and random using the vibration test elements. Includes a number of simple case studies and answers fundamental questions with regard to how field data is obtained, stored and converted to useful test specifications.

From the Inside Flap

Vibration testing is used to analyze the integrity of systems in a variety of applications that range from circuit boards and aircraft to steam turbines and home appliances. Conducting these tests in either the field or laboratory involves the use of data analyzers, instruments, and vibration exciters. The use of equipment and interpretation of test results require considerable understanding of vibration phenomena as well as analysis and experimental concepts. Consequently, the user of this equipment can be the dominant influence on the quality of test results. Vibration Testing: Theory and Practice is a step-by-step guide that shows how to obtain meaningful experimental results via the proper use of modern instrumentation, vibration exciters, and signal-processing equipment, with particular emphasis on how different types of signals are processed with a frequency analyzer. Also included are techniques for reading test results effectively and a discussion of how the test system’s own dynamics can influence test results. Using practical lessons to introduce the theoretical

aspects of vibration testing, the book covers all basic concepts and principles underlying dynamic testing, explains how current instruments and methods operate within the dynamic environment, and describes their behavior in a number of commonly encountered field and laboratory test situations. Vibration Testing: Theory and Practice deals with a wide range of product and production testing involving vibration, acoustics, and noise problems in the vibration-testing environment, whether relating to industrial applications or experimental work. It is an invaluable resource for graduate students, researchers, and practicing engineers in aerospace, mechanical, and civil engineering.

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A new, comprehensive field and laboratory guide for vibration testing

Here, for the first time, is a complete and self-contained volume that shows how to perform vibration tests and experiments with confidence. Because so many factors--environmental and structural, instrument-related and human--come into play in the vibration-testing environment, obtaining meaningful measurements by means of transducers can be challenging for engineers, researchers, and graduate students alike.

Vibration Testing: Theory and Practice not only shows how to avoid the pitfalls inherent in using modern instruments and methods but also covers all the important elements involved in conducting vibration tests, and builds an understanding of the theory through practical applications in laboratory and field environments.

Based on the author's 30 years of experience in vibration testing and research, this clearly written, logically presented book:
* Provides a review of the fundamentals of vibration theory
* Brings the theory and practice of vibration testing up to date with all current instrumentation and research data
* Covers transducers, their calibration as well as their limitations
* Includes a complete chapter on vibration test specifications
* Helps develop a sense of how instruments work individually as well as how they function as part of a testing environment
* Includes practical examples that can be used for personnel training purposes

Addressing concerns of both experimental researchers and product testers, and covering a wide range of field and laboratory situations, Vibration Testing: Theory and Practice is an extremely useful book for anyone striving to achieve meaningful results in vibration testing.

Vibration testing is used to analyze the integrity of systems in a variety of applications that range from circuit boards and aircraft to steam turbines and home appliances. Conducting these tests in either the field or laboratory involves the use of data analyzers, instruments, and vibration exciters. The use of equipment and interpretation of test results require considerable understanding of vibration phenomena as well as analysis and experimental concepts. Consequently, the user of this equipment can be the dominant influence on the quality of test results.

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Using practical lessons to introduce the theoretical aspects of vibration testing, the book covers all basic concepts and principles underlying dynamic testing, explains how current instruments and methods operate within the dynamic environment, and describes their behavior in a number of commonly encountered field and laboratory test situations.

Vibration Testing: Theory and Practice deals with a wide range of product and production testing involving vibration, acoustics, and noise problems in the vibration-testing environment, whether relating to industrial applications or experimental work. It is an invaluable resource for graduate students, research-ers, and practicing engineers in aerospace, mechanical, and civil engineering.

- Sales Rank: #3634256 in Books
- Published on: 1995-09-01
- Original language: English
- Number of items: 1
- Dimensions: 9.35" h x 1.78" w x 6.34" l, 2.46 pounds
- Binding: Hardcover
- 624 pages

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