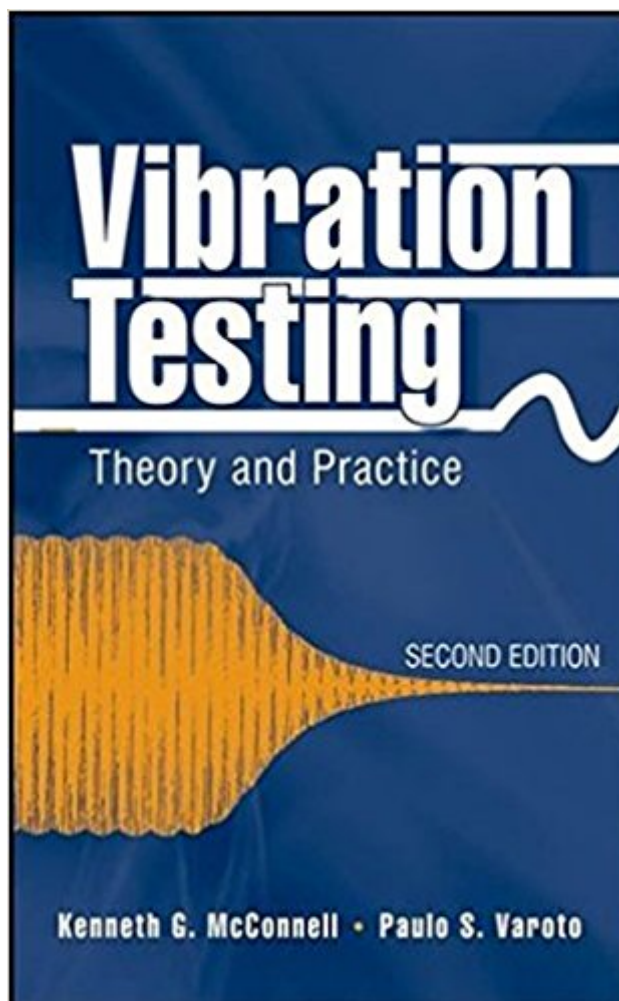




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Vibration Testing: Theory And Practice



Synopsis

Vibration Testing: Theory and Practice, Second Edition 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. Thoroughly updated, this new edition 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.

Book Information

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Customer Reviews

"This 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)

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. --This text refers to an out of print or unavailable edition of this title.

Excellent material for vibration testing. I cannot imagine leaving this book out of your testing library. I love reading this book even in retirement because it brings back memories of everything I was involved with in my 40 years of testing.

Purchased this Nov 10. Book is easy to read, develops theory well. Written for an engineer or practitioner, not an academician. Lots of good tips and tricks to avoid pitfalls setting up and analyzing a vibration test. Would recommend to add to your collection.

May be this is the first book for scientists in the field of (aero & mechanical) vibration. It covers brief theory of dynamic signal analysis (chapter 2), vibration concepts (chapter 3), transducer measurement considerations, digital frequency analyzer, vibration exciters, and vibration testing. However, students may find that the theory presented in chapters 2 and 3 'too brief' to understand and need to refer to other books. For (new) experimental scientists in the field of vibration, the book is very valuable since it reveals theoretical background of vibration sensors, exciters, and their effects on specimens dynamics.

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