Modal testing

Type de contenu : Texte

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Auteur(s) : Avitabile, Peter

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Résumé ou extrait : The practical, clear, and concise guide for conducting experimental modal tests. Modal Testing: A Practitioner's Guide outlines the basic information necessary to conduct an experimental modal test. The text draws on the author's extensive experience to cover the practical side of the concerns that may arise when performing an experimental modal test. Taking a hands-on approach, the book explores the issues related to conducting a test from start to finish. It covers the cornerstones of the basic information needed and summarizes all the pertinent theory related to experimental modal testing. Designed to be accessible, Modal Testing presents the most common excitation techniques used for modal testing today and is filled with illustrative examples related to impact testing which is the most widely used excitation technique for traditional experimental modal tests. This practical text is not about developing the details of the theory but rather applying the theory to solve real-life problems, and : Delivers easy to understand explanations of complicated theoretical concepts ; Presents basic steps of an experimental modal test ; Offers simple explanations of methods to obtain good measurements and avoid the common blunders typically found in many test approaches ; Focuses on the issues to be faced when performing an experimental modal test ; Contains full-color format that enhances the clarity of the figures and presentations. Modal Testing: A Practitioner's Guide is a groundbreaking reference that treats modal testing at the level of the practicing engineer or a new entrant to the field of experimental dynamic testing

Sujet(s) : Constructions
Dynamique
Vibrations
Modèles
Matériaux
Essais dynamiques
Modèles mathématiques

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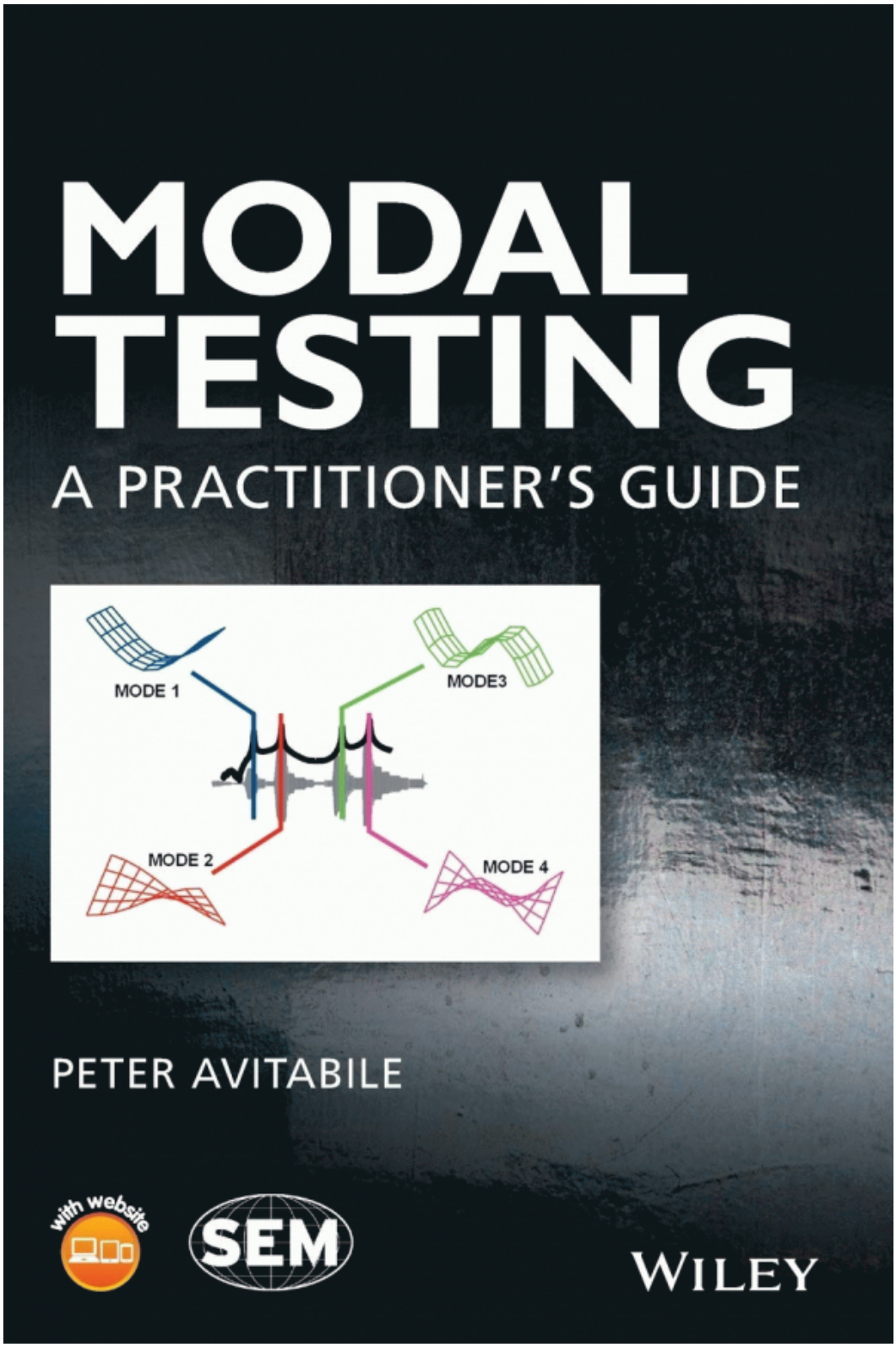

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