

## Modal Testing Theory And Practice Mechanical Engineering

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Modal testing: Theory and Practice D. J. Ewins Professor of Vibration Engineering, Imperial College of Science and Technology, London, England RESEARCH STUDIES PRESS LTD. Letchworth, Hertfordshire, England JOHN WILEY & SONS INC. ^ New York • Brisbane • Chichester • Toronto • Singapore

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Modal testing is, in effect, the process of constructing a mathematical model to describe the vibration properties of a structure based on test data, rather than a conventional theoretical analysis. As such, it has applications throughout the entire field ofengineering.

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The first step in experimental modal analysis is to measure the excitation and responses of the structure under test. The structure must be excited and the applied excitation force and resulting response vibrations, typically accelerations, are both measured resulting in a Frequency Response Function data set.

### Basics of Modal Testing and Analysis — Crystal Instruments ...

Overview of Modal Testing IUST ,Modal Testing Lab ,Dr H Ahmadian Philosophy of Modal Testing Integration of three components: Theory of vibration Accurate vibration measurement Realistic and detailed data analysis Examples: Quality and suitability of data for process Excitation type Understanding of forms and trends of plots

### Modal Testing

Modal analysis is defined as the study of the dynamic characteristics of a mechanical structure. This applica-tion note emphasizes experimental modal techniques, specifically the method known as frequency response function testing. Other areas are treated in a general sense to intro-duce their elementary concepts and relationships to one another.

### The Fundamentals of Modal Testing

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Modal Testing: Theory and Practice, by D.J. Ewins, J. Wiley & Sons, Chichester, 1985. ISBN 0-86-38-00-173, 265 pages, hard-cover, £19.50. This book provides a much needed introduction to the subject of modal testing.

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