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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 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

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

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The dynamic testing of as-built structures is essential for understanding structural dynamic properties, updating finite-element models, maximizing th...

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