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interpreting and applying the results from a modal test are described in straightforward terms.

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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

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mechanical structure. This application note emphasizes experimental modal techniques, specifically the method known as frequency response function testing. Other areas are treated in a general sense to introduce 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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source #2: modal testing theory practice ..., modal testing is the form of vibration testing of an object whereby the natural (modal) frequencies, modal masses, modal damping ratios and mode shapes of the object.

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