

Preface

Sensors and Instrumentation Topics represents one of six clusters of technical papers presented at the 29th IMAC, A Conference and Exposition on Structural Dynamics, 2011 organized by the Society for Experimental Mechanics, and held in Jacksonville, Florida, January 31 - February 3, 2011. The full proceedings also include volumes on Advanced Aerospace Applications, Modal Analysis, Linking Models and Experiments, Civil Structures, and Rotating Machinery, Structural Health Monitoring, and Shock and Vibration.

Each collection presents early findings from experimental and computational investigations on an important area within Structural Dynamics.

Credit for much of the progress in the field of modal analysis over the last twenty five years is owed to substantial advancements in sensors, electronics and computing platforms. Many of those involved in modal analysis and testing have personal and professional interests in the associated equipment and sensors.

Achieving accurate test results depends on an adequate knowledge of the test equipment, its selection, use, and limitations. This series of tutorials, presented by a distinguished group of experts, is meant to offer readers an opportunity to learn more about their test instrumentation, and explore the application of emerging technologies such as wireless communication and fiber optics.

The organizers would like to thank the authors, presenters, session organizers and session chairs for their participation in this track.

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