Preface

Special Topics in Structural Dynamics Volume 6: Proceedings of the 31st IMAC, A Conference on Structural Dynamics, 2013 represents one of seven volumes of technical papers presented at the 31st IMAC, A Conference and Exposition on Structural Dynamics, 2013 organized by the Society for Experimental Mechanics, and held in Garden Grove, California February 11–14, 2013. The full proceedings also include volumes on Nonlinear Dynamics; Experimental Dynamics Substructuring; Dynamics of Bridges; Dynamics of Civil Structures; Model Validation and Uncertainty Quantification; and, Modal Analysis.

Each collection presents early findings from experimental and computational investigations on an important area within Structural Dynamics. Special Topics in Structural Dynamics represents papers on enabling technologies for Modal Analysis measurements such as Sensors & Instrumentation, as well as applications of Modal Analysis in specific application areas. Topics in this volume include:

Teaching Experimental & Analytical Structural Dynamics
Sensors & Instrumentation
Aircraft/Aerospace
Bio-Dynamics
Sports Equipment Dynamics
Advanced ODS & Stress Estimation
Shock & Vibration
Full-Field Optical Measurements & Image Analysis
Structural Health Monitoring
Operational Modal Analysis
Wind Turbine Dynamics
Rotating Machinery
Finite Element Methods

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

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Special Topics in Structural Dynamics, Volume 6
Allemand, R.; De Clerck, J.; Niezrecki, C.; Wicks, A. (Eds.)
2013, X, 634 p. 525 illus., 407 illus. in color., Hardcover
ISBN: 978-1-4614-6545-4