

Preface

Topics in Dynamics of Civil Structures, Volume 4: Proceedings of the 31st IMAC, A Conference on Structural Dynamics, 2013 represents one of the 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, held in Garden Grove, California, from February 11 to 14, 2013. The full proceedings also include volumes on nonlinear dynamics; experimental dynamics substructuring; dynamics of bridges; model validation and uncertainty quantification; special topics in structural dynamics; and modal analysis.

Each collection presents early findings from experimental and computational investigations on an important area within structural dynamics. The dynamics of civil structures is one of these areas.

Understanding the dynamic response of large civil structures improves design and safety, extends life, and reduces maintenance. IMAC has become a principal technical venue for dissemination of the latest techniques devoted to field testing of civil structural systems and components, processing of response data and identification of dynamic structural properties, calibration and validation of numerical structural models, and assessment of structural condition based on dynamic properties.

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