

Preface

Dynamics of Civil Structures represents one of five clusters of technical papers presented at the 28th IMAC, A Conference and Exposition on Structural Dynamics, 2010 organized by the Society for Experimental Mechanics, and held at Jacksonville, Florida, February 1-4, 2010. The full proceedings also include volumes on Structural Dynamics and Renewable Energy, Nonlinear Modeling and Applications, Dynamics of Bridges, and Structural Dynamics.

Each collection presents early findings from experimental and computational investigations on an important area within Structural Dynamics. The current volume on *Dynamics of Civil Structures* includes studies on Modeling and Estimation of Loads on Civil Structures, Model Correlation and Updating (Civil Structures), Modal Parameter Identification (Civil Structures), Damage Detection and Modeling (Civil Structures), Control of Civil Structures/Stadium Dynamics, and Experimental Techniques (Civil Engineering).

Understanding the dynamic response of large civil structures improves design and safety, extends life, and reduces maintenance. IMAC has become a principle 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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