

Preface

Dynamics of Civil Structures, Volume 4 represents one of the eight volumes of technical papers presented at the 32nd IMAC, A Conference and Exposition on Structural Dynamics, 2014, organized by the Society for Experimental Mechanics, and held in Orlando, Florida, February 3–6, 2014. The full proceedings also include volumes on Dynamics of Coupled Structures; Nonlinear Dynamics; Model Validation and Uncertainty Quantification; Structural Health Monitoring; Special Topics in Structural Dynamics; Topics in Modal Analysis I; and Topics in Modal Analysis II.

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

The Dynamics of Civil Structures Technical Division serves as a primary focal point within the SEM umbrella for technical activities devoted to civil structures testing, monitoring, and assessment. This volume covers dynamic testing and analysis of all kinds of civil engineering structures such as buildings, bridges, stadiums, and dams. Over the last few years, there has been an interest in input and output modal analysis, as well as output only, ambient vibration testing of bridges. In addition to the material in this volume, a number of technical contributions devoted to new methods, nonlinear dynamics, wind turbine dynamics, and monitoring related to civil structure dynamics may be found in other volumes of these proceedings.

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

Orlando, FL, USA

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Dynamics of Civil Structures, Volume 4
Proceedings of the 32nd IMAC, A Conference and
Exposition on Structural Dynamics, 2014
Catbas, F.N. (Ed.)
2014, IX, 528 p. 464 illus., Hardcover
ISBN: 978-3-319-04545-0