

1. Record Nr.	UNINA9910627272203321
Titolo	Dynamics of Civil Structures, Volume 2 : Proceedings of the 40th IMAC, A Conference and Exposition on Structural Dynamics 2022 / / edited by Hae Young Noh, Matthew Whelan, P. Scott Harvey
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	87-438-0393-8 87-438-0025-4 3-031-05449-0
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (111 pages)
Collana	Conference Proceedings of the Society for Experimental Mechanics Series, , 2191-5652
Disciplina	624.171 624.17
Soggetti	Statics Building construction Dynamics Nonlinear theories Mechanics, Applied Building materials Mechanical Statics and Structures Solid Construction Applied Dynamical Systems Engineering Mechanics Structural Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Smart Active Vibration Control System of a Rotary Structure using Piezoelectric Material -- Chapter 2. You Put HOW MANY Tuned Mass Dampers in ONE Building?? -- Chapter 3. Temperature Variation Modelling of an Assembled Three-Storey Structure -- Chapter 4. Modal Identification of a Railway Bridge Under Train Crossings: A Comparative Study -- Chapter 5. Real-time and Web-based Structural Damage

Detection Network for Multiple Structures -- Chapter 6. Identification of Damage in Composite Beams Involving Both Flexural and Shear Link Damages -- Chapter 7. Anomaly Detection Through Long Term SHM: Some Interesting Cases on Bridges -- Chapter 8. A Framework for Developing Efficient Vehicle-Bridge Interaction Models within a Commercial Finite Element Software -- Chapter 9. Damaged Metamaterials: Structural Health Monitoring and Damage Tolerance -- Chapter 10. Indirect Bridge Health Monitoring using Time-Frequency Analysis: Analytical and Experimental Studies -- Chapter 11. Bayesian UncertaintyAssessment for Modulus of Elasticity of Concrete and Mechanical Properties of Steel Reinforcing Bar.

Sommario/riassunto

Dynamics of Civil Structures, Volume 2: Proceedings of the 40th IMAC, A Conference and Exposition on Structural Dynamics, 2022, the second volume of nine from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures, including papers on: Structural Vibration Humans & Structures Innovative Measurement for Structural Applications Smart Structures and Automation Modal Identification of Structural Systems Bridges and Novel Vibration Analysis Sensors and Control .
