



## Civil Engineering Topics, Volume 4. Vol.4

By Proulx, Tom

Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the 29th IMAC, A Conference on Structural Dynamics, 2011 | Civil Engineering Topics, Volume 4 Proceedings of the 29th IMAC, A Conference and Exposition on Structural Dynamics, 2011, the fourth volume of six from the Conference, brings together 35 contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Civil Engineering, including Operational Modal Analysis, Dynamic Behaviors and Structural Health Monitoring. | Multi-dimensional Calibration of Impact Dynamic Models.- Dynamic Analysis of Railway Bridges by Means of the Spectral Method.- Normalization of Complex Modes from Mass Perturbations.- Numerical Continuation of Periodic Orbits for Harmonically Forced Nonlinear Systems.- Identification of the Tensile Force in Tie-rods of Historical Constructions.- Data Fusion for System Identification of the Humber Bridge.- Human-induced Vibration Propagation on a Composite Floor System.- Mitigation of Low-velocity, Wind-induced Vibration of an Architectural Spire.- Reduced Order Modal-space Wireless Control of Civil Engineering Structures.- Wind Turbine Structural Damping Control for Tower Load Reduction.- Identification of Dynamic Properties of Open-deck Viaducts Under Passing Train Loads.- Risk Assessment of Dolphin Protected Bridge Pier Considering Collision Point Analysis.- OMAX Testing of a Steel Bowstring Footbridge.-...



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