

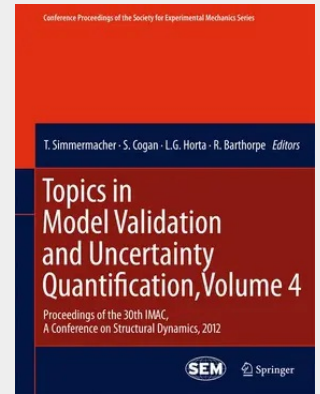
Topics in Model Validation and Uncertainty Quantification, Volume 4

Proceedings of the 30th IMAC, A Conference on Structural Dynamics, 2012

Topics in Model Validation and Uncertainty Quantification, Volume 4, Proceedings of the 30 IMAC, A Conference and Exposition on Structural Dynamics, 2012, the fourth volume of six from the Conference, brings together 19 contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on:

Robustness to Lack of Knowledge in Design
Bayesian and Markov Chain Monte Carlo Methods
Uncertainty Quantification
Model Calibration

Info-Gap Analysis and Design of Mechanical Systems: A Tutorial.- On Assessing the Robustness of Structural Health Monitoring Technologies.- Design of an Uncertain Prestressed Space Structure: An Info-gap Approach.- Bayesian Damage Localisation at Higher Frequencies With Gaussian Process Error.- Identification of Hysteretic Systems Using NARX models, Part II: A Bayesian Approach.- Bayesian Methods for Uncertainty Quantification in Multi-level Systems.- Sampling Techniques in Bayesian Finite Element Model Updating.- Bayesian Model Updating Approach for Systematic Damage Detection of Plate-type Structures.- On the Legitimacy of Model Calibration in Structural Dynamics.- Propagation of Uncertainty in Substructured Spacecraft Using Frequency Response.- Possibilistic Interpretation of Mistuning in Bladed Disks by Fuzzy Algebra.- FEM Sensitivity Technique for Dynamic Response Uncertainty Analyses.- Uncertainty Quantification of Weighted Residual Method in Loads Estimation.- Rapid Structural Condition Assessment Using Transmissibility With Quantified Confidence for Decision Making.- Simulating Unbalance for Future IVHM Applications.- Inverse Eigensensitivity Approach in Model Updating of Avionic Components.- Shape Optimization of Plates for Desired Natural Frequencies From Coarse Grid Results.- Model Updating of Complex Assembly Structures Based on Substructures-joint Parameters.



213,99 €
199,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781489998668
Medium: Buch
ISBN: 978-1-4899-9866-8
Verlag: Springer
Erscheinungstermin: 08.05.2014
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2014
Serie: Conference Proceedings of the Society for Experimental Mechanics Series
Produktform: Kartoniert
Gewicht: 502 g
Seiten: 190
Format (B x H): 210 x 279 mm

