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Model Validation and Uncertainty Quantification, Volume 3

Proceedings of the 40th IMAC, A Conference and Exposition on Structural Dynamics 2022

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Description:

Model Validation and Uncertainty Quantification, Volume 3: Proceedings of the 40th IMAC, A Conference and Exposition on Structural Dynamics, 2022, the third 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 Model Validation and Uncertainty Quantification, including papers on:

- Uncertainty Quantification and Propagation in Structural Dynamics
- Bayesian Analysis for Real-Time Monitoring and Maintenance
- Uncertainty in Early Stage Design
- Quantification of Model-Form Uncertainties
- Fusion of Test and Analysis
- MVUQ in Action

Keywords: Inverse Problems and Uncertainty Quantification Controlling Uncertainty Validation of Models for Operating Environments Model Validation & Uncertainty Quantification: Decision Making Uncertainty Quantification in Structural Dynamics Uncertainty in Early Stage Design Computational and Uncertainty Quantification Tools

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