



## Structural Safety Evaluation Based on System Identification Approaches

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By Hans G. Natke

Vieweg & Teubner Verlag Jan 1988, 1988. Taschenbuch. Book Condition: Neu. 244x170x27 mm. This item is printed on demand - Print on Demand Neuware - InhaltsangabeDamage Descriptions and Basic Requirements.- Cracked Cross Section Measurement in Rotating Machinery.- System Identification.- Utilization of Experimental Investigations in the Process of Tower Structures Dynamic Identification.- On the Determination of the Number of Effective Modes from Vibration Test Data.- Structural System Identification from Modal Information.- System Identification Using Nonlinear Structural Models.- Identification of Hysteretic Structural Behaviour from Strong Motion Accelerograms.- Calibration of Nonlinear Constitutive Laws for Elastic-Plastic Analysis in Presence of Creep Strains.- Inelastic Modeling and System Identification.- Identification of Equivalent Linear Systems.- Reliability of an Identification System for Predicting Incipient Capsize Due to Chaotic Rolling Motion of a Ship.- Correlation of Analysis and Test in Modeling of Structures: Assessment and Review.- Localization Techniques.- A Two Stage Identification Approach in Updating the Analytical Model of Buildings.- Interaction between System Identification and Damage Evaluation.- Reliability Based Factor of Safety for Unmanned Spacecrafts.- Parameter Identification for Reliability in Markov Cumulative Damage Processes.- A System Identification Approach to the Detection of Changes in Structural Parameters.- Time Domain Identification of Linear Structures.- Fuzzy Data Processing in Damage Assessment.- Concepts.-...

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