



# Modeling and Estimation of Structural Damage

*Jonathan M. Nichols, Kevin D. Murphy*

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*Modelling and Estimation of Damage in Structures* is a comprehensive guide to solving the type of modelling and estimation problems associated with the physics of structural damage.

- Provides a model-based approach to damage identification
- Presents an in-depth treatment of probability theory and random processes
- Covers both theory and algorithms for implementing maximum likelihood and Bayesian estimation approaches
- Includes experimental examples of all detection and identification approaches
- Provides a clear means by which acquired data can be used to make decisions regarding maintenance and usage of a structure

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