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Enhancement of the Feature Extraction Capability in Global Damage Detection Using Wavelet Theory

By Atef F. Saleeb

BiblioGov. Paperback. Condition: New. This item is printed on demand. 156 pages. Dimensions: 9.7in. x 7.4in. x 0.3in. The main objective of this study is to assess the specific capabilities of the defect energy parameter technique for global damage detection developed by Saleeb and coworkers. The feature extraction is the most important capability in any damage-detection technique. Features are any parameters extracted from the processed measurement data in order to enhance damage detection. The damage feature extraction capability was studied extensively by analyzing various simulation results. The practical significance in structural health monitoring is that the detection at early stages of small-size defects is always desirable. The amount of changes in the structures response due to these small defects was determined to show the needed level of accuracy in the experimental methods. The arrangement of fine extensive sensor network to measure required data for the detection is an unlimited ability, but there is a difficulty to place extensive number of sensors on a structure. Therefore, an investigation was conducted using the measurements of coarse sensor network. The white and the pink noises, which cover most of the frequency ranges that are typically encountered in the many measuring devices used (e. g.



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