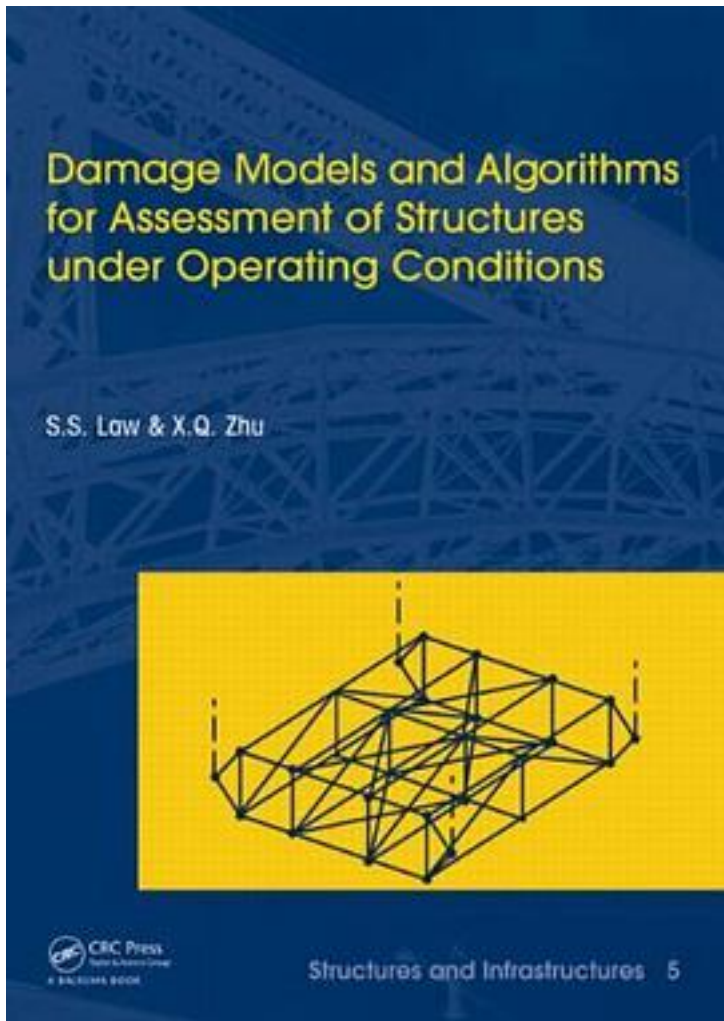


# Damage Models and Algorithms for Assessment of Structures under Operating Conditions



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Exceptionally useful in monitoring structuring health, "Assessment of Structures Under Operating Conditions: Damage Models and Algorithms" provides the suitable algorithms to convert collected data in order to gain knowledge of the condition of an infrastructure for maintenance scheduling purposes. It addresses developments in time response series and its derivatives including the wavelet-based impulse response function and also discusses loads on the structure (vehicular load, the ground micro tremor and ambient random excitation from the supports) in the conditions assessment. The treatment of uncertainties and the study of their propagation in the inverse problem of structural condition assessment are also discussed. In the "Structures and Infrastructures Series" Series Description Structures and Infrastructures comprises advanced-level books dealing with the maintenance, management, and cost analysis of structures and infrastructures. Topics treated include research, development and application of the most advanced technologies for analyzing, predicting, and optimizing the performance of structures and infrastructures, such as buildings, bridges, dams, underground construction, offshore platforms, pipelines, naval vessels, ocean structures, and nuclear power plants, as well as airplanes, aerospace, and automotive structures. Themes featured are mathematical modeling, computer and experimental methods, practical applications in assessment and evaluation, construction and design for durability, decision making, deterioration modeling and aging, failure analysis, field testing, financial planning, inspection and diagnostics, life-cycle analysis and prediction, loads, maintenance strategies, management systems, nondestructive testing, maintenance and management optimization, specifications and codes, structural safety and reliability, system analysis, time-dependent performance, rehabilitation, repair, replacement, reliability and risk management, service life prediction, strengthening and whole life costing.

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目录:

[Damage Models and Algorithms for Assessment of Structures under Operating Conditions\\_下载链接1](#)

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