



## Damage Models and Algorithms for Assessment of Structures Under Operating Conditions: Volume 5: Structures and Infrastructures Book Series (Hardback)

By Siu-Seong Law, Xin-Qun Zhu

Taylor Francis Ltd, United Kingdom, 2009. Hardback. Book Condition: New. 230 x 162 mm. Language: English . Brand New Book. Extensive amounts of operational data are generated over time by the health monitoring system of a structure management system, yet there are few analysis algorithms which can tell the exact working state of the structure on-line. Good maintenance engineers need to know the exact location and state of the structural components after an earthquake or some attack or accident involving the structure, possibly within a matter of hours, and the client also demands a rapid diagnosis of the structure before making decisions on any necessary remedial work. This book is devoted to the condition assessment of a structure under operational loading, with most of the illustrations related to a bridge deck under a group of moving vehicular loads. More generally, a wide variety of excitation forces can be exerted on a structure, from earthquake excitation, wind loading, vehicular loading or ambient excitation at the supports. Different algorithms may be used to enable real time identification with deterministic results on the state of the structure. This book also covers a group of damage-detection-oriented-models developed by the author, including a new...

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