



Infrastructure Health in Civil Engineering (Two-Volume Set)

Mohammed M. Ettouney, Sreenivas Alampalli

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Winner of the Inaugural *Journal of Bridge Structures*' Book Award

Continually increasing demands on infrastructure mean that maintenance and renewal require timely, appropriate action that maximizes benefits while minimizing cost. To be as well informed as possible, decision-makers must have an optimal understanding of an infrastructure's condition?what it is now, and what it is expected to be in the future. Written by two respected engineers, **Infrastructure Health in Civil Engineering** is presented in two corresponding volumes that integrate the decision making concept into theoretical and practical issues.

The first volume, *Theory and Components*, includes:

- An overview of the infrastructure health in civil engineering (IHCE) and associated theories
- In-depth description of the four components of IHCE: measurements, structural identification, damage identification, and decision making
- Discussion of how IHCE and asset management are applied
- Exploration of analogies between structural and human health

The second volume, *Applications and Management*, covers:

- State-of-the-art practices and future directions
- Use of probability and statistics in areas including structural modeling
- Specific practical applications, including retrofitting and rehabilitation in response to earthquake damage, corrosion, fatigue, and bridge security
- Use of IHCE for management and maintenance of different types of structures using pre-stressed and reinforced concrete, and fiber-reinforced polymers (FRPs)
- Numerous practical case studies, as well as coverage of the latest techniques in the use of sensors for damage detection and load testing

This set comprises, perhaps for the first time, an invaluable integrated guide to the wide range of structural hazards?including scour, earthquakes, fatigue, corrosion, and damage to pre-stressed systems. It then lays out the optimized, cost-saving methods that will help readers meet safety specifications for new projects, as well as the aging infrastructure at great risk of failure.

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