



sensors



Special Issue Reprint

Smart Sensors for Structural Health Monitoring and Nondestructive Evaluation

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Structural health monitoring (SHM) and nondestructive evaluation (NDE) technologies can be used to identify defects or damage and evaluate the health status of components or systems to avoid structural failure. Sensors are widely used to collect information about the status of engineering components or systems, and their development and application are key research topics in SHM and NDE. This reprint focuses on the most recent original contributions relating to the use of smart sensors in structural health monitoring and nondestructive evaluation. The topics of discussion include sensors and sensor arrays, sensor modeling and simulation, SHM systems and technology, nondestructive testing and evaluation, structural diagnosis and performance evaluation, signal processing, artificial intelligence applications in SHM and NDE, system and instrument development, and field applications of SHM and NDE.



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