

Structural Health Monitoring 2015 System Reliability For Verification And Implementation

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The proposed monitoring system for structural health is based on a microcontroller and two triaxial accelerometric sensors. The data returned, and subsequently suitably processed, allows to determine the identification of the damage indicator on an engrave steel bar. 2. Literature Background of Structural Health Monitoring

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Abstract. Structural health monitoring (SHM) system is a method of evaluating and monitoring structural health. It has been widely applied in various engineering sectors due to its ability to respond to adverse structural changes, improving structural reliability and life cycle management.

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Thus, the health monitoring of structures has been a hot research topic of structural engineering in recent years. First, this work highlights the structural damage detection methods as a step of ...

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Structural health monitoring refers to the process of implementing a damage detection and characterization strategy for engineering structures such as bridges and buildings. Here damage is defined as changes to the material and/or geometric properties of a structural system, including changes to the boundary conditions and system connectivity, which adversely affect the system's performance. The SHM process involves the observation of a system over time using periodically sampled response measur

~~Structural health monitoring - Wikipedia~~

The monitoring system is composed of a sensor system, a data acquisition and transmission system, a data management system, and a structural evaluation system. The monitoring system is currently in full operation, accumulating the bridge's behaviors under the varying environmental conditions such as high-speed trains and environmental temperature.

~~Long-Term Structural Health Monitoring System for a High~~

Modular Solution for Efficient Structural Health Monitoring. All structures, whether bridges, wind energy plants, water, gas and oil pipelines, tunnels, oil rigs, pavements, rails, but also ships, planes, trains or others are subject to various internal and external factors which may cause wear or malfunction. This can happen, for example due to deterioration, an incorrect construction process, lack of quality control or an extreme situation resulting from an accident or environmental load.

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Sensors for structural health monitoring are designed to facilitate the monitoring process, and enabling maintenance engineers with decision-making tools, which will ensure the safety of the facility, and the public. A typical health monitoring system is composed of a network of sensors being responsible to measure different parameters relevant to the current state of the structure as well as its surrounding environment, such as stress, strain, vibration, inclination, humidity, and temperature.

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But What is Structural Health Monitoring? Structural health monitoring (SHM) refers to an array of connected sensors to collect and analyze data, at every moment during the service life of the structure. The goal of such system is to identify and quantify any damage or deterioration state that might occur over the service life (Balageas, 2006). While SHM systems might vary in their architecture and deployment, they all encompasses four distinct subsets (Chang, 2003).