

## عنوان مقاله:

Guided Wave Structural Health Monitoring

## محل انتشار:

دومین کنفرانس بین المللی بازرسی فنی و آزمون غیرمخرب (سال: 1387)

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## خلاصه مقاله:

Structural Health Monitoring (SHM) is an upcoming technology in inspection engineering. This technology is currently becoming increasingly common. On the other hand, ultrasonic guided wave technology is becoming more commonplace in industry, because of major benefits in ultrasonic non-destructive testing methodologies. Ultrasonic guided wave offers the potential for SHM with an extremely low sensor density. Guided elastic waves in the frequency range of a few hundred KHz can travel large distance in structure and detect defects such as cracking, corrosion, in metals and delamination in composites. It means guided wave SHM has the potential to detect damage anywhere in a structure. The purpose of this paper is to provide a vision of ultrasonic guided wave inspection potential for SHM. For this, the basic concept, application, advantages and limitations of the method will be discussed.

## کلمات کلیدی:

Structural Health Monitoring, SHM, Ultrasonic Guided Wave

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/57310>

