

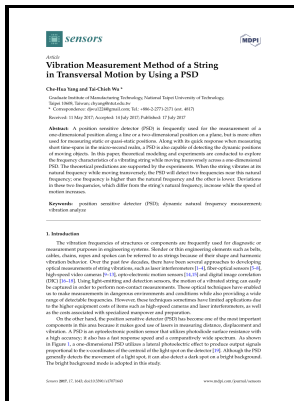
First International Conference on Vibration Measurements by Laser Techniques: Advances and Applications, 3-5 October 1994, Ancona, Italy

SPIE--the International Society for Optical Engineering - First International Conference on Vibration Measurements by Laser Techniques: Advances and Applications, 3

Description: -

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Holographic interferometry -- Congresses.
Laser interferometers -- Congresses.
Laser Doppler velocimeter -- Congresses.
Vibration -- Measurement -- Congresses.
First International Conference on Vibration Measurements by Laser Techniques: Advances and Applications, 3-5 October 1994, Ancona, Italy

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Events of Nondestructive Testing (NDT)

The visibility of these fringes is modulated by a function of local amplitude of vibration; thus loci of constant vibrational amplitude can be directly observed as regions of high or low fringe visibility in the image of the surface. The influence of moisture on the mechanical behaviour of sandstone assessed by means of micro-computed tomography.

Publications P. Slangen

The applications of the method under review are discussed.

LDV

Tomasini: On field validation of non-invasive Laser Scanning Vibrometer measurement of damaged frescoes: experiments on large walls artificially aged. Scattered electrons are confined by an axial magnetic field and are channelled into a detector using reflecting potentials and an trochoidal deflection. It has an important message to deliver and it appears to be delivering it well.

Non

Then the elastic moduli can be extracted from the sound velocities. From the wavenumber-frequency domain data thus obtained, it is straightforward to compute the spatial derivatives that are necessary to determine the structural power flow. International Laser Science Conference, Seattle, Washington, U.

Publications P. Slangen

A failure at only a single bonding site among as many as several hundred per component often results in failure of the entire system, and thus losses in the form of expenditures for production.

Novel Applications of Laser Doppler Vibration Measurements to Medical Imaging

In this case interaction and probe regions are equivalent precisely. A laser vibrometer equipped with optic fibers is used to make velocity measurements on the assemblies at different levels. FRFs are used to generate characteristic vibration shapes mode shapes at various natural frequencies.

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