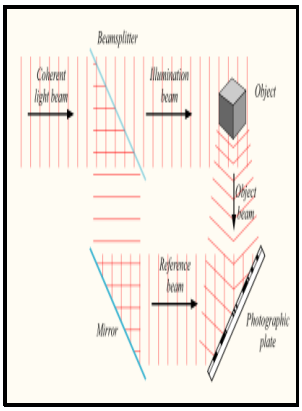
Holographic and electronic speckle pattern interferometry applied to the measurement of static and dynamic mechanical properties of elastomers

- - Electronic Speckle Pattern Interferometry



Description: -
-Holographic and electronic speckle pattern interferometry applied to the measurement of static and dynamic mechanical properties of elastomers
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Notes: Thesis(M.Phil.) - Loughborough University of Technology.
This edition was published in 1988

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Tags: #Dynamic #Holographic

A Combination of a 3 Step Temporal Phase Algorithm and a High Speed Interferometer System for Dynamic Profile Measurements

However, disbonding and significant core damage at the near side of thin-skinned sandwich structures is a likely target application for this group of wide-area techniques. This new light source opened a realm of new techniques to both the physicist and the engineer.

Interferometric dynamic measurement: techniques based on high

New interferometric systems, which are simple and flexible are of interest for engineering and industrial applications. In the third ESPSI system only one grating is used - it is placed in front of the object.

Interferometric dynamic measurement: techniques based on high

The size of flaws introduced in rubber during the manufacturing process is an important characteristic as they increase the stress in the specimen when it is in use.

Dynamic Holographic

One of the most significant advantages of this material is that it is self-developing.

Holographic and electronic speckle pattern interferometry applied to the measurement of static and dynamic mechanical properties of elastomers (1988 edition)

The major drawback of interferometric techniques is that any internal structural anomaly must render itself visible by a change in the displacement or strain at the visible surface. The basic principle of speckle interferometry involves the comparison of speckle patterns recorded before and after

a load or displacement is applied to the component under test. Ibrahim, in , 2016 7.

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