

Title (en)
DEFECT IDENTIFICATION IN BODIES CONSISTING OF BRITTLE MATERIAL

Title (de)
FEHLERERKENNUNG IN KÖRPERN AUS SPRÖDEN MATERIALIEN

Title (fr)
DETECTION DE DEFAULTS DANS DES CORPS EN MATERIAUX FRAGILES

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Application
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Abstract (en)
[origin: DE10133510C1] The invention relates to a non-linear method, which permits a simple, rapid and precise defect identification in a body consisting of brittle materials. According to said method, the body is subjected (1a, 2b) to acoustic vibrations of different intensities in at least two temporally staggered operations (A, B), a vibration response of the body is recorded (2a, 2b) in the time range, the vibration response is normed (3a, 3b), the start of the vibration is determined (4a, 4b) and a section of the vibration response is determined (5a, 5b), the start of said section forming the previously determined start of the vibration and said section having a specific length. A correlation coefficient of the sections of the respective vibration responses of the two or more operations constitutes (6) a characteristic value for the defect identification.

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