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The digital ultrasonic interferometer for quality inspection of piezoelectric crystals

Muhtarov N., Sarimov L.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Medwell Journals, 2016.Researcher refers to hypersonic measurement technique. A digital hypersonic method for quality inspection of piezoelectric crystals. The method is grounded on automatic metering of a time interval between echo pulses and Supersonic Wave Attenuation (SWA) in an inspected article with information output in a digital form. The hardware and functional features of hypersonic system is presented. The method can be used in factory and scientific laboratories to obtain express-information on quality of ingoing materials for fabricated items.

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Keywords

Absorption, Amplitude, Duration, Frequency, Q-factor, Velocity