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Ultrasonic characterization of materials hardness

A. Badidi Bouda, A. Benchaala, K.Alem

Abstract: In this paper, an experimental technique has been developed to measure velocities and attenuation of ultrasonic waves through a steel with a variable hardness. A correlation between ultrasonic measurements and steel hardness was investigated.

Keywords : Ultrasounds, hardness, Velocity, Attenuation