Détection, positionnement, localisation et identification des défauts dans les matériaux solides par ultrasons

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Soutenue en: 2019

Abstract: In this study, we have been adapted to the various techniques of non-destructive testing and especially non-destructive ultrasonic testing by contact of a piezoelectric transducer with welded parts (different types of welding). This method can detect, locate, dimension and identify defects in the weld seam after going through several steps such as calibration and tracing of the distance amplitude curve. The ultimate goal of this control is to accept or reject controlled parts according to international standards

Keywords : Non-Destructive testing, piezoelectric transducer, different types of welding