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On the Calibration of Ultrasonic Flaw Detector

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Abstract

For the assessment performance of the ultrasonic flaw detector (UFD) equipment, various standard documents are referred to such as ASTM (E-317), British Standard (BS-4331), Bureau of Indian Standard (IS-12666), and more. The methods of calibration are spelt in different tone in these documents while broadly serving the same purpose.

In the present paper a comparison for the calibration procedure for evaluation the performance of UFD for different parameters are given. NPL as a National Measuring Institute of India is providing the facility for the calibration of ultrasonic flaw detectors according to the different procedures on request from the users. Study has been made to analyse the different procedures and the most suitable calibration procedure is suggested in the present work, while keeping the essentials of recommended procedure in the standard.