

The new multi-layer materials are widely used in air-space industry. We present the new method of multi-layer material thickness measurement, which is based on the digital Hilbert transformation and the signal unwrapped phase analysis. The results indicate that a phase unwrapping of a signal from transducer is able to detect the phase jumps, which are produced by the eho signal superposition during ultrasound nondestructive examination of a multi-layer material.

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