

Tomographic reconstruction of a multi-attenuation phantom by means of ultrasonic method

Abstract

This paper presents a work on tomography reconstruction of a multi-attenuation phantom by means of ultrasonic method. A transmission-mode approach has been used for the sensing modality. The reconstruction has been conducted on an array of 32-ultrasonic transceiver with 333 kHz resonance using fan-shaped beam scanning geometry. In this work, the tomographic images are derived from Back-Projection algorithm. Some of the results based on the Linear Back-Projection algorithm (LBP) were presented and discussed.