

MATERIALS AND STRUCTURES SYMPOSIUM (C2)
Poster Session (P)

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STUDY ON PHASED ARRAY ULTRASONIC NONDESTRUCTIVE TESTING FOR ALUMINIUM
ALLOY FRICTION STIR WELDING

Abstract

The typical defect characteristics in aluminium alloy friction stir welding(FSW)were analysed in the paper,and the basic principles and characteristics of phased array ultrasonic testing(PAUT) were investigated.The typical defects in aluminium alloy of FSW were detected using PAUT technology,and the testing results were compared with optical microscopy.The experiment results presented showed that the PAUT has potential usage in nondestructive inspection of FSW.