

2010

# EVALUATION PAR COURANT DE FOUCAULT PULSE DES DEFATS EN MULTICOUCHES

**Nacer Boucherou, Mourad ZERGOUG**

**Abstract :** In non destructif testing, we can found two eddy currents techniques, the most used one is the classic eddy current where the electromagnetic filed is generated by an alternative current. This technique is applied only for surface or sub surface detection of defects. Pulsed eddy currents methods is derived for the classic eddy current but the electromagnetic filed is generated by a pulsed current. In this paper we are going to present some applications of pulsed eddy currents for characterising electrical conductivity and survey defects like crack and material lost.

**Keywords :** NDT, Pulsed eddy current, electrical conductivity, magnetic permeability