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EVALUATION PAR COURANT DE FOUCAULT PULSE DES DEFECTS EN MULTICOUCHES

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Abstract : In non destructive testing, we can find two eddy currents techniques, the most used one is the classic eddy current where the electromagnetic field 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 field 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 loss.

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