

ABSTRACT

The quality of a product can be controlled and evaluated using the Destructive Testing (DT) and Nondestructive Testing (NDT) testing method which is a product testing method that can be used to test the feasibility and reliability of a product. Basically, the testing is used to ensure a product we used is still safe and appropriate. Nondestructive Testing (NDT) is a product testing method to determine the errors of a material before it is formed into a product such as deformity, crack, or discontinuous and also predicts the anomalous position without damaging the pertinence of the product. Which ECT is one of the methods using electromagnetic principle without any interaction between the sensor (in this case is a coil) and the object being tested. In this research the application of ECT is scrutinized for the experimental study of induction with multy Receivers by pattern recognition of some parameters which is given by one induction using Transmitter coil by comparing the measured potential value (voltage), the parameter will be tested at nine points as multy Receiver determined on the conductive object as an iron plate.

Keywords : *eddy current testing, nondestructive testing, induction system, multireceiver, potential data*