



## I. Introduction

Non destructive testing (NDT) aims to solve the so-called inverse problem for detecting and characterizing cracks from measured data. One of the main techniques used for testing is based on eddy currents. It is a very sensitive technique and tests are carried out without affecting future use of material or expectation of the develop an automated testing device or, in other words, an instrument able to acquire data from the material under test and able to describe, with minimal human involvement, the characteristics of the defect.

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