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I. Introduction

One method for determining the volume distribution of material conductivity consists of inducing eddy currents inside the conductor under test and measuring the magnetic field produced by those currents. This method has different technological applications. Nondestructive testing [1], [2], thickness measurement [3], surface treatment inspection of conductive materials, material property characterization [4], and biomedical induction tomography [5] can be mentioned. Single-frequency, multiple-frequency, and pulsed eddy-current measurement systems [6]–[8] are reported as robust and accurate solutions with wide application in nondestructive inspection of metallic structures of aircrafts.

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