

Electromagnetic Nondestructive Evaluation (XVI) (Studies in Applied Electromagnetics and Mechanics)

By J.M.A. Rebello, F. Kojima, T. Chady



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Electromagnetic Nondestructive Evaluation (ENDE) is the process of inducing electric currents, magnetic fields or both within a test object to assess its condition by observing the electromagnetic response. An important tool in fields as diverse as engineering, medicine and art, it does not permanently alter the object being tested, thus proving invaluable for product evaluation, troubleshooting and research. This book presents the proceedings of the 17th International Workshop on Electromagnetic Nondestructive Evaluation (ENDE), held in Rio de Janeiro, Brazil, in July 2012. ENDE workshop is an important event for all scientists with interests in non-destructive testing. The first workshop took place in 1995 in London UK, and has been followed by workshops held in various parts of the world, but this is the first time this workshop series has come to a Latin American country. The workshops bring together scientists and engineers active in research, development and industrial applications of ENDE. The book is divided into five sections: advanced sensors; analytical and numerical modeling; systems and techniques for electromagnetic NDE; characterization of materials and NDE of cracks; and new developments and others. Each section includes papers on a variety of subjects. From the papers submitted for publication, thirty six peer reviewed articles have been accepted, six of which emanate from Latin American authors. The book will be of interest to all those wishing to keep abreast of developments in the field, or who rely on the advanced techniques based on electromagnetic principles applied to nondestructive evaluation in their work.

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• Sales Rank: #13011841 in Books

• Published on: 2014-01-15 • Original language: English

• Dimensions: 9.50" h x 6.50" w x 1.00" l, 1.66 pounds

• Binding: Hardcover

• 344 pages

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