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**Sinopsis**

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This publication aims to discuss the technical advances and the developments of the basics of electromagnetic NDT. Though one of the main topics is the Eddy Current Testing which is put to practical use in industry now as one of the approved methods of crack detection in steels and metallic structures, Electromagnetic Nondestructive Evaluation (X) emphasizes magnetic NDE method according to the concept of NDE & Science Research Center. The book contains thirty-three technical papers, covering topics on eddy current testing and technique, industrial applications, new methods, NDE by magnetism and magnetics, inverse problem and benchmark. The material is important for scientists and engineers working in the field of electromagnetic nondestructive testing or nondestructive evaluation, in defect detection and sizing, as well as in material characterization.