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Interaction with Ferrite Cored Coils by Coupling Semi-Analytical and Numerical Techniques"; "Modeling the X-Probe(R) and the +Point(R) Eddy Current Probes"; "Experimental Measurements and Simulations of ECT Signal for Ferromagnetic SG Tubes Covered by a Sodium Layer"; "Numerical Simulation of EMAT Signals for Detection of Debonding in HIP Welding of Multilayer Tubes"; "Innovative Industrial Applications"; "Applicability of Eddy Current Testing to the Evaluation of Electric Wire"; "Development of Automated Tube Deposit Measurement System for Steam Generator Tubing of Nuclear Power Plant"; "Advances of THz NDE"; "Eddy Current Examination of Steam Generators in Molten Salt Reactor"; "Diagnosis of Supporting Structures of HV Lines with Using of the Passive Magnetic Observer"; "New Developments"; "Detecting and Identifying Deleterious Phases in Lean Duplex Stainless Steel"; "Comparison of Lorentz Force Eddy Current Testing and Common Eddy Current Testing - Measurements and Simulations"; "High Frequency Eddy-Current and Induction Thermography Inspection Techniques for Turbine Components"; "Advances in High Frequency Electromagnetic NDE"; "Nondestructive Evaluation of Eccentricity of ITER In-Vessel Coils Based on Eddy Current Testing"; "Pipe-Wall Thickness Measurement at High Temperature by Electromagnetic Acoustic Transducer"; "Defect Detection with Velocity Induced Eddy Currents Using a Permanent Magnet"

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## Sommario/riassunto

The demand for new and effective methods for the evaluation, maintenance and live-time testing of objects in fields as diverse as engineering, medicine and art, continues to grow. Electromagnetic non-destructive evaluation is a process by which an object can be assessed without permanent alteration by means of inducing electric currents or magnetic fields within the object and observing the electromagnetic response. This book presents selected papers from the 18th International Workshop on Electromagnetic Non-destructive Evaluation (ENDE), which was held in Bratislava, Slovak Republic, on June

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