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| 1. Record Nr. | UNINA9910145452203321 |
| Titolo | 2006 International Conference on Indium Phosphide and Related Materials conference proceedings : 8-11 May 2006 |
| Pubbl/distr/stampa | New York : , : IEEE, , 2006 |
| ISBN | 1-5090-9148-3 |
| Descrizione fisica | 1 online resource (449 pages) |
| Soggetti | Electronics - Materials Indium phosphide Photonics |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| 2. Record Nr. | UNINA9910961139303321 |
| Titolo | Electromagnetic nondestructive evaluation (XV) // edited by B.P.C. Rao ... [et al.] |
| Pubbl/distr/stampa | Amsterdam ; ; Washington, D.C., : IOS Press, c2012 |
| ISBN | 6613433063 1-283-43306-0 9786613433060 1-60750-968-7 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (368 p.) |
| Collana | Studies in applied electromagnetics and mechanics, , 1383-7281 ; ; v. 36 |
| Altri autori (Persone) | RaoB. P. C |
| Disciplina | 620.1/1278 |
| Soggetti | Nondestructive testing Magnetic testing Conference papers and proceedings |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |

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| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | <p>Title page; Foreword; Preface; Conference Organization; List of Participants; Contents; Advanced Modeling and Simulation for Electromagnetic NDE; Field Computations of Inductive Sensors with Various Shapes for Semi-Analytical ECT Simulation; Fast Simulation Method of Multiple Narrow Cracks in Planar Stratified Media; Numerical Simulation of Electromagnetic Acoustic Transducers in Time Domain; Parallel MGS-QR Sparsification for Fast Eddy Current NDT Simulation; Nondestructive Interrogation of Dielectric Materials Using Markov Chain Monte Carlo Method for Structural Equation Model</p> <p>Magnetic Barkhausen NDE Real-Time Non-Destructive Inspection of Stress-Induced Anisotropy Using Magnetic Barkhausen Noise; Gear Quality Assessment Using Magnetic Barkhausen Noise Technique; Automatic Monitoring of Flexible Risers Using Magnetic Barkhausen Noise and Clustering Methods; Use of Magnetic Barkhausen Noise to Evaluate the Mechanical Properties and Residual Stress; Metallic Materials Characterization; Advances in Electromagnetic NDE Techniques for Characterization of Metallic Materials; Evaluation of Subsurface Shape of Fatigue Crack by Eddy Current Testing</p> <p>Electromagnetic Evaluation of Metallic Fillers - Plastic Composites Quantitative Estimation of Strain Induced α'- Martensite in Cold Worked AISI Type 304 Stainless Steel Using GMR Sensor; Characterization of Pulsed Eddy Current NDE in Metallic Materials Through in-situ Monitoring of Tensile Testing; Magnetic NDE Techniques; Evaluation of Sigma Phase Embrittlement in Fe-Cr Alloys by Magnetic Hysteresis Loop Technique; Behavior of Magneto acoustic Emission on Cold-Rolled Fe-Cu Alloy with Thermal Aging; Early Detection of Damage in Thermo-Cyclically Loaded Austenitic Materials Understanding Sigma Phase Influence on the Magnetic Behavior of Duplex Stainless Steel Inversion and Imaging Techniques; Improvement of Restoration Accuracy of Semi-Elliptical Surface Crack Considering the Resolution of Flux Gate Sensor; Statistical Analysis of Array Probe Eddy Current Data from Steam Generator Tubes; Dipole Identification and Localization Using Pseudo-Inverse Techniques for Magnetic Flux Leakage Experiments; 3-D finite Element Modeling of Leakage Magnetic Fields from Inclined Cracks in Carbon Steel Plates</p> <p>Competitive Learning on Cosine Similarity Method for Classification of Defects in Two-Layered Metallic Structures 3D Image Reconstruction Using Noisy EMAT Signal; Eddy Current Imaging Enhancement Using Electromagnetic Evanescent Waves; Sensors and Transducers for Electromagnetic NDE; Damage Evaluation of Copper Alloy by Eddy Current Testing with AMR Sensor; Eddy Current Transducers Dedicated for Titanium Billets Evaluation; Comparison of Detection Abilities Between Inductance Sensor and Fluxgate Magnetometer in ECT Pipe Wall Thickness Measurements on Flow Accelerated Corrosion by Electro-Magnetic Acoustic Transducer</p> |
| Sommario/riassunto | <p>Nondestructive evaluation is a vitally important tool in many fields of engineering, medicine and art. Because it does not permanently alter the article being inspected, it is a highly-valuable technique that can save both money and time in product evaluation, troubleshooting and research. Electromagnetic Nondestructive Evaluation (ENDE) is the process of inducing electric currents, magnetic fields or both inside a test object and observing the electromagnetic response. This book is a collection of 41 papers presented at the 16th International Workshop on Electromagnetic Nondestructive Evaluation</p> |

