

Neutron Radiography: Proceedings of the Eighth World Conference: Wcncr-8

By Richard G. Downing

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Neutron radiography for materials research and analysis Applications to engineered materials, minerals and biological materials Analyses for aeronautic, automotive and advanced energy components All chapters fully searchable on CD-ROM included with book This book-CD-ROM combination, the eighth in a series, contains 72 original and highly refereed chapters covering key advances in neutron radiography, with a focus on the analysis of materials and high-value products. The book shows how neutron radiography is an efficient tool for materials research and NDT testing, especially with regard to microstructure, and to the analysis of natural material elements in situ. The chapters in this book were developed from presentations at the WCNR-8 meeting, held under the auspices of NIST. Section Headings (with selected chapter titles, abbreviated): Facilities and Instrumentation * Methods and Technology * Applications* Reinforced Polymer Biocomposites* Helicopter Rotors* Liquid Metals* Material Microstructure* PEFC* Hydrogen Storage Alloys* Detectors and Sensors Author Index.

Sample Chapter: NeutronRadiographyatNURReactor:StatusandProspects ; Time-of-Flight Spectrum Measurements at the Neutron Imaging Facility CONRAD at the Hahn-Meitner Institute; Comparison Radiography and Tomography Possibilities of FRM-II (20MW)andBudapest (10MW)ResearchReactor; Multifunctional Tomography Instrument with Cold Neutrons atHMI; Recent Developments in Neutron Imaging at ILL; Testing a Compact Tomography Setup at Aerotest Radiography andResearchReactor, SanRamon, California; Neutron Radiography and Tomography Facilities at NIST to Analyze In-SituPEMFuelCellPerformance; The New Multi-Filter at ANTARES TOFMeasurements and FirstApplications; In-Pool Neutron Radiography for the Jules Horowitz Reactor: AKey Non Destructive Equipment ProjectWithin a Modern ExperimentalProcess; The HFR HB8 Neutron Radiography Facility; Experimental Study on Neutron Radiography with Accelerator BasedNeutronSourceUsingD-BEReaction

APPLICATIONS

Investigation of Calcareous Arenites from St. Stephan's Cathedral, Vienna; Study

onWater Uptake Behaviour of Jute Reinforced Polymer Composites Using
NEUTRA Facility at SINQ; Table of Contents v POD Assessment of the RMC
Neutron Radiology System forWater
DetectioninCF188HornetFlightControlSurfaces; Trials of Neutron CT and Its
PGAA Assurance Procedure for ArcheologicalObjects Study of the Inner
Structure of a Damaged Control Rod by NeutronandX-
RayRadiographyandDiscreteTomography; Study of Defects in Helicopter Rotor
Blade Reference Objects by Neutron-, and X-Ray Radiography, Vibration
Diagnostics and UltrasoundTesting; Void Distribution Around a Distributor
Nozzle of Fluidized Bed; Study of the Museum Object by Neutron-, Gamma, X-
Ray RadiographyandNeutronDiffraction; Application of Dynamic Neutron
Radiography to Measure the Liquid-MetalVelocityFieldinaNarrowChannel

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Bibliography

- Sales Rank: #5512959 in Books
- Published on: 2008-05-15
- Original language: English
- Dimensions: 9.00" h x 6.00" w x 1.25" l,
- Binding: Hardcover
- 800 pages

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