

Nondestructive Determination of Materials Parameters by Neutron Diffraction

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Summary

Based on the high transmission of neutron radiation, neutron diffraction is an efficient tool for the analysis of various materials parameters of the bulk of a material in a non-destructive way. Sample sizes up to 40 mm in diameter have been used to determine the phase composition, texture and internal stresses of polycrystalline, polyphased materials. Additionally to well-known X-ray techniques which analyse the surface of a sample, neutron diffraction measurements are carried out to investigate the average behaviour of a bulk sample or the local behaviour within a compact sample. Further advantages of neutron diffraction are that small volume fractions (e.g. 0.05 Vol.% Cu in Al) can be determined. Moreover, in the case of X-ray diffraction the examination of coarse-grained materials and of complex multiphase materials is limited, and neutron diffraction has to be used. Several neutron diffractometers at different Research Centers can be used, but there are still limitations on beam time.

Introduction

Investigations of materials parameters on bulk samples in a non-destructive way require a method with a high penetration depth. In contrast to X-rays (standard radiation Cu $K\alpha$ - 0.15 nm) there are some alternative radiations suitable for materials research:

- neutron radiation (Bacon [1])
- synchrotron radiation (Gottstein [2])
- short wavelength X-rays such as tungsten radiation
(W $K\alpha$ - 0.02 nm) (see Brokmeier et al. [3] and Kopineck [4])
- γ -radiation

All four types of radiation have a high but different transmission and also large differences in local position resolution. Moreover, the availability of the radiations is quite different. This paper will deal only with neutron radiation. Neutron diffraction methods are closely parallel to well-known X-ray techniques.

For an analysis of a bulk sample two different kinds of studies has to be take into account:

1. A description of the average behaviour of the bulk of a material.
2. A description of a selected local area within the bulk of the sample.

Neutron Diffraction Techniques For Nondestructive Evaluation

Roy Collins



Neutron Diffraction Techniques For Nondestructive Evaluation:

Neutron Diffraction Techniques for Non-destructive Evaluation W. Windsor, 1991 *Mechanics of Nondestructive Testing* Stinchcomb, 2012-12-06 The synergism of the mechanics of nondestructive testing and the mechanics of materials response has great potential value in an era of rapid development of new materials and new applications for conventional materials. The two areas are closely related and an advance in one area often leads to an advance in the other. As our understanding of basic principles increases, nondestructive testing is outgrowing the image of black box techniques and is rapidly becoming a legitimate technical area of science and engineering. At the present time, however, an understanding of the mechanics of nondestructive testing is lagging behind other advances in the field. The key to further development in the mechanics of nondestructive testing lies in the mechanics of the phenomena or response being investigated. A better understanding of materials response suggests better nondestructive test methods to investigate the response, which in turn advances our understanding of materials response and so on. With this approach in mind, the Materials Response Group of the Engineering Science and Mechanics Department at Virginia Polytechnic Institute and State University hosted a Conference on the Mechanics of Nondestructive Testing on September 10 through 12, 1980. Sponsors of the conference were the Army Research Office, the National Science Foundation, and the Engineering Science and Mechanics Department.

Nondestructive Characterization of Materials VI Robert E. Green, K.J. Kozaczek, C.O. Ruud, 2012-12-06 Traditionally, the vast majority of materials characterization techniques have been destructive, e.g., chemical compositional analysis, metallographic determination of microstructure, tensile test, measurement of mechanical properties, etc. Also, traditionally, nondestructive techniques have been used almost exclusively for the detection of macroscopic defects, mostly cracks in structures and devices which have already been constructed and have already been in service for an extended period of time. Following these conventional nondestructive tests, it has been common practice to use somewhat arbitrary accept/reject criteria to decide whether or not the structure or device should be removed from service. The present unfavorable status of a large segment of industry, coupled with the desire to keep structures in service well past their original design life, dramatically shows that our traditional approaches must be drastically modified if we are to be able to meet future needs. The role of nondestructive characterization of materials is changing and will continue to change dramatically. It has become increasingly evident that it is both practical and cost effective to expand the role of nondestructive evaluation to include all aspects of materials production and application and to introduce it much earlier in the manufacturing cycle. In fact, the recovery of a large portion of industry from severe economic problems is dependent in part on the successful implementation of this expanded role. Review of Progress in Quantitative Nondestructive Evaluation Donald O. Thompson, Dale E. Chimenti, 2012-12-06 These Proceedings, consisting of Parts A and B, contain the edited versions of most of the papers presented at the annual Review of Progress in Quantitative Nondestructive Evaluation held at the Snowbird Ski and Summer

Resort in Snowbird Utah on July 19-24. The Review was organized by the Center for NDE at Iowa State University in cooperation with the Ames Laboratory of the USDOE, the American Society of Nondestructive Testing, the National Aeronautics and Space Administration, NASA, the National Institute of Standards and Technology, the Federal Aviation Administration, and the National Science Foundation. Industry/University Cooperative Research Centers. This year's Review of Progress in QNDE was attended by approximately 410 participants from the US and many foreign countries who presented a total of approximately 370 papers. As usual, the meeting was divided into 36 sessions with four sessions running concurrently. The Review covered all phases of NDE research and development from fundamental investigations to engineering applications and inspection systems and methods of inspection science from acoustics to x-rays. The Review continues to benefit from increased participation from foreign laboratories. This year the Review also welcomed members from the newly formed World Federation of NDE Centers and appreciate their participating in the program.

Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking Raman Singh, Baldev Raj, U. Kamachi Mudali, Prabhakar Singh, 2019-03-06. A comprehensive text to the non-destructive evaluation of degradation of materials due to environment that takes an interdisciplinary approach. Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking is an important resource that covers the critical interdisciplinary topic of non-destructive evaluation of degradation of materials due to environment. The authors noted experts in the field offer an overview of the wide variety of approaches to non-destructive evaluation and various types of corrosion. The text is filled with instructive case studies from a range of industries including aerospace, energy, defense, and processing. The authors review the most common non-destructive evaluation techniques that are applied in both research and industry in order to evaluate the properties and more importantly degradation of materials, components or systems without causing damage. Ultrasonic, radiographic, thermographic, electromagnetic, and optical are some of the methods explored in the book. This important text offers a groundbreaking interdisciplinary approach to non-destructive evaluation of corrosion and corrosion-assisted cracking. Discusses techniques for non-destructive evaluation and various types of corrosion. Includes information on the application of a variety of techniques as well as specific case studies. Contains information targeting industries such as aerospace, energy, processing. Presents information from leading researchers and technologists in both non-destructive evaluation and corrosion. Written for life assessment and maintenance personnel involved in quality control, failure analysis, and R & D. Non-Destructive Evaluation of Corrosion and Corrosion-assisted Cracking is an essential interdisciplinary guide to the topic.

Nondestructive Evaluation Ronald D. Streit, 1989. **Electromagnetic Non-Destructive Evaluation (XXIII)** Bin Gao, 2020-11-15. Electromagnetic Non-destructive Evaluation (ENDE) is an invaluable non-invasive diagnostic tool for the inspection, testing, evaluation, and characterization of materials and structures. It has now become indispensable in a number of diverse fields ranging from biomedics to many branches of industry and engineering. This book presents the proceedings of the 24th

International Workshop on Electromagnetic Nondestructive Evaluation held in Chengdu China from 11-14 September 2019. The 38 peer-reviewed and extended contributions included here were selected from 45 original submissions and are divided into 7 sections: eddy current testing and evaluation, advanced sensors, analytical and numerical modeling, material characterization, inverse problem and signal processing, artificial intelligence in ENDE, and industrial applications of ENDE. The papers cover recent studies concerning the progress and application of electromagnetic (EM) fields in the non-destructive examination of materials and structures and topics covered include evaluations at a micro-structural level such as correlating the magnetic properties of a material with its grain structure and a macroscopic level such as techniques and applications for EM NDT. Recent developments and emerging materials such as advanced EM sensors, multi-physics NDT, intelligent data management and maintaining the integrity of structures are also explored. The book provides a current overview of developments in ENDE and will be of interest to all those working in the field.

Handbook of Nondestructive Evaluation 4.0
Norbert Meyendorf, Nathan Ida, Ripudaman (Ripi) Singh, Johannes Vrana, 2025-06-29

This handbook now as second edition continues to comprehensively cover the cutting edge trends and techniques essential for the integration of nondestructive evaluation (NDE) into the changing face of the modern industrial landscape. In particular, it delves into the marriage of NDE with new techniques in e.g. data mining and management, cloud computing, autonomous operation, AI for data analysis and decision making as well as cyber security, highlighting the potential for cyber-physical controlled production and discussing the myriad possible applications across many different industries. The Handbook of NDE 4.0 centers around the Industry 4.0 philosophy, the next generation of industrial production encompassing all aspects of networking across all industrial areas. It discusses the adaptation of existing NDE techniques to emerging new technological areas such as 3D printing via the introduction of cyber systems into the inspection and maintenance processes. In addition, the handbook covers topics such as the management and processing of big data with respect to real-time monitoring of structural integrity and reliable inspection of individual components. Remote NDE to include competence not available on-site will be a potential technique to increase reliability of NDE inspections by integrating additional specialist inputs into the decision process by methods such as telepresence, thereby better leveraging the scarce resources of senior inspectors into industrial inspections at multiple sites. The handbook also includes non-technical topics of direct relevance to leadership, management and adoption of this new philosophy. The handbook houses a wealth of essential information to help academics, industry professionals, regulatory bodies and entrepreneurs navigate through this burgeoning new field. The material in this handbook is presented with the intention of ultimately improving human safety through reliable inspections and dependable maintenance of critical infrastructure while also enhancing business value through reduced downtime, affordable maintenance and talent optimization. The content is positioned to inspire NDE professionals to think broadly in terms of their role as continuous value-add rather than discrete decision support. This second edition contains many new chapters and half of all chapters were revised from the 1st edition.

based on the engagement of authors through global platforms such as the ICDNT Specialist International Group on NDE 4 0 and the International conference series on NDE 4 0 Nondestructive Evaluation Don E. Bray, Roderick K.

Stanley, 2018-10-03 Nondestructive evaluation NDE inspection schemes are important in design manufacturing and maintenance By correctly applying techniques of NDE we can reduce machine and system failures and increase reliability of operating systems over an extended lifetime Nondestructive Evaluation A Tool in Design Manufacturing and Service introduces and discusses primary techniques used in the field including ultrasonics acoustic emission magnetics radiography penetrants and eddy currents Examples of each of these techniques are included demonstrating typical applications

Nondestructive Testing of Materials Roy Collins, 1995 This book reviews the current state of all types of electromagnetic testing techniques and considers the implications of innovations for future inspection practice both in Europe and Japan This volume provides researchers with an overview of exchanges on the subjects of ACPD and ACFM from both Japanese and continental perspectives For instance the Japanese project of applied electromagnetic theory to inspect nuclear power plants and the theory of signal inversion for flaw identification Topics covered are Inversion imaging and flaw reconstruction Advanced signal processing Artificial intelligence and neural networks Modelling simulation and benchmark problems Reliability of inspections new techniques and novel sensors Automation of data acquisition and processing The work covers a wide range of disciplines and will therefore serve a large number of researchers of electromagnetic theory for the next millenium **Publications** United States. National Bureau of Standards, 1980 **NBS Special Publication**, 1968

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