

J.D. Achenbach and Y. Rajapakse, editors

# **Solid Mechanics Research for Quantitative Non-Destructive Evaluation**

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# Solid Mechanics Research For Quantitative Nondestructive Evaluation

**JL Elias**



## **Solid Mechanics Research For Quantitative Nondestructive Evaluation:**

*Solid mechanics research for quantitative non-destructive evaluation* Jan D. Achenbach, Y. Rajapakse, 2012-12-06 Within the Solid Mechanics Program at the Office of Naval Research ONR our primary mission is to establish a basic research program which addresses the fundamental issues in solid mechanics where a clear scientific understanding is lacking Our approach involves first identifying the various scales at which material and structural response and failure occur Within each level of behavior we address the basic mechanical phenomena for which a clear physical description is not available ONR's program emphasizes experimental research to identify and quantify the interacting behavior and response mechanisms Theoretical and computational approaches are developed to explain the details of the physical processes and to establish the technology necessary to control the thermomechanical behavior of materials and structures Within the Department of Defense it is a natural evolution that all new systems must generally operate in more demanding environments than the systems they replace Thus structural designers are pushed towards lighter weight precision structures utilizing new materials In such an environment structural design margins simultaneously shrink and become more critical Such trends make it essential that a well founded scientific base for the nondestructive detection and assessment of subcritical flaws in structural materials and structures exist Within the ONR Solid Mechanics Program we are interested in both the identification of flaws and assessment of their degree of criticality

**Solid Mechanics Research for Quantitative Non-Destructive Evaluation** J. D. Achenbach, NORTHWESTERN UNIV EVANSTON IL DEPT OF CIVIL ENGINEERING., 1987 Non destructive evaluation NDE procedures play an important role in materials processing as well as in subsequent material testing product design analysis of service life expectancy manufacturing and quality control of manufactured products They are also essential to on line monitoring of the integrity of structural elements and complex systems Rational accept and reject criteria should be based on NDE tests Critical safety efficiency and operational features of large scale structures depend on adequate NDE capabilities Acoustic Emission Dynamic Fracture Materials and Transducer Characterization Failure Mechanisms and Processes in Composites using Acoustic Emission Flaw Characterization by Ultrasonic Scattering Methods Experimental Research on Ultrasonic Scattering from Flaws Elastic Wave Interactions with Partially Contacting Surfaces Application to Fatigue Crack Characterization Ultrasonic Nondestructive Evaluation Microstructure and Fracture Toughness Interrelations Low Frequency Acoustic Microscopy Ultrasonic NDE of Composites as Inhomogeneous Media Non destructive Characterization of Damage in Graphite Epoxy Laminates

**Review of Progress in Quantitative Nondestructive Evaluation** Donald O. Thompson, Dale E. Chimenti, 2013-12-01 This volume Parts A and B contains the edited papers presented at the annual Review of Progress in Quantitative Nondestructive Evaluation held at Bowdoin College Brunswick ME on July 24-28 1989 The Review was organized by the Center for Advanced NDE at the Ames Laboratory of the U S Department of Energy in cooperation with the Office of Basic Energy Sciences USDOE and the

Materials Laboratory at Wright Patterson Air Force Base The statistics for the 1989 Review of Progress in QNDE include a total of over 460 participants from the U S and nine foreign countries who presented some 325 papers Over the years this conference has grown into one of the largest most significant gatherings of NDE researchers and engineers in the world The meeting was divided into 35 sessions with as many as four sessions running concurrently and covering all stages of NDE development from basic research investigations to early engineering applications and all methods of inspection science from ultrasonics to x ray tomography The Editors have organized the papers in the Proceedings according to topical subject headings rather than in the original order of presentation This rearrangement yields a more user friendly reference work and follows a pattern now familiar to regular attendees of the Review Some changes in the headings and their subcategories have been introduced to accommodate dynamic evolution of the field as we observe it Non-Destructive Testing of Fibre-Reinforced Plastics Composites J. Summerscales,1990-09-30 **Scientific and Technical Aerospace Reports** ,1995

Research Trends in Solid Mechanics U.S. National Committee on Theoretical and Applied Mechanics,1999 Hardbound Solid mechanics is a basic scientific discipline which provides the theoretical foundation experimental support solution methodology and computational tools for analysis design construction manufacture and behavior prediction in service of many devices machines materials structures and large complex systems that are essential to the existence and progress of an advanced civilization It is concerned with both manmade natural and living solid objects and with all aspects of their physical behavior that affect their function integrity or service life expectancy The contents of this volume offer examples of some of the activities that are currently at the forefront of solid mechanics research and also illustrate the vast reach of the discipline and of its interactions with other science and engineering endeavors **Nondestructive Materials Characterization** Norbert G. H. Meyendorf,Peter B. Nagy,Stanislav I. Rokhlin,2013-11-21 Nondestructive Evaluation NDE becomes a key discipline for modern technology Information about materials defects and properties is significant to guarantee reliability of a product and avoid fatal accidents For instance technologies with high safety requirements like aviation automotive and energy production are driving forces for NDE Keeping in mind that aging of the infrastructure is an issue in all industrial countries and that for example an aircraft can have a lifetime of several decades poses new challenges for NDE and especially nondestructive materials characterization Besides the traditional in field applications NDE becomes more and more a tool to study materials degradation processes and to provide engineers with input data for sophisticated models describing materials behavior and the life of components At present this marriage of NDE and materials modeling shows significant success in predicting damage progression corrosion fatigue and thus an enhancement of availability and reliability of components and complete aircraft This book will give a snapshot of the present research in materials characterization of aging aircraft Methods considered are x ray ultrasonic optical and thermal techniques and in particular techniques with high spatial resolution to detect and quantify early stages of degradation or to characterize materials microstructure Every

chapter briefly describes the basics and the principles of one NDE method under consideration. Discussing recent research results by applying these methods completes the chapters. The readers will get an overview of the present state of the art of materials characterization techniques.

**The Evaluation of Materials and Structures by Quantitative Ultrasonics** J.D. Achenbach, 2014-05-04. Nondestructive evaluation (NDE) procedures are needed for materials processing as well as for post process materials testing. They play important roles in product design, analysis of service life expectancy, manufacturing and quality control of manufactured products. They are also essential to on line monitoring of the integrity of structural elements and complex systems. Rational accept and reject criteria should be based on NDE tests. Critical safety efficiency and operational features of large scale structures depend on adequate NDE capabilities. The lectures presented in this volume are concerned with quantitative ultrasonic NDE. They present fundamental concepts and basic theory as well as applications to the detection of cracks and the evaluation of material properties. The following topics are discussed: basic wave propagation theory for ultrasonic NDE, piezoelectric transducers, EMATS and ultrasonic spectroscopy, laser based ultrasonics, acoustoelasticity, ultrasound in solids with porosity, microcracking and polycrystalline structuring, the determination of mechanical properties of composite materials, inverse problems and imaging.

**Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards, 1980. **Applied Mechanics Reviews**, 1985.

**Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.), 1988. **Acoustic Emission** Wolfgang Sachse, Kusuo Yamaguchi, James Roget, 1991. Papers presented at the symposium held in Charlotte NC March 1989 examine the phenomenon in which elastic or stress waves are emitted from a rapid localized change of strain energy in a material. The first section focuses on AE sensors and systems. The second deals with fundamental investigation.

Review of Progress in Quantitative Nondestructive Evaluation, 2000. **Publications of the National Bureau of Standards, 1987 Catalog** United States. National Bureau of Standards, 1988. Acoustic Emission - Beyond the Millennium T. Kishi, M. Ohtsu, S. Yuyama, 2000-09-01. The theme of the 15th International Acoustic Emission Symposium IAES15 was set as practicality for life extension and maintenance of plants and structures. Special emphasis was placed on the review of acoustic emission (AE) research and applications in the 20th century and its future in the 21st century. The technique for monitoring defects and abnormal vibrations due to machine failures is vitally important for the safety of structures in a modern society. AE as a passive rather than an active NDT method has drawn much attention because of its applicability to on stream surveillance of structures. One important point is its capability to acquire data very simply but with high sensitivity so that the development of a non contact sensing technique is particularly important. A quantitative method to evaluate structural integrity and remaining life from the detected AE signals is strongly required. Quantitative analysis based on inverse procedures has provided a certain solution but has not been utilized widely enough in structures due to its complexity. Its applicability is limited partly because the accuracy of solutions depends on noise levels.

and partly because the phenomenon is usually non reproducible AE is expected to be a next generation technique not only to monitor conditions but also for the repair of damaged structures combined with an active adaptive technique using a solid state actuator Smart Materials and Structures are known in this respect AE is considered to be a very promising technique together with such sensing techniques as optical fiber shape memory alloy and electro rheological fluid Thus AE can play a very important roll in monitoring evaluating and repairing structures In this workshop a limited number of invited papers are presented for technical discussion to review the achievements of AE research and applications in the 20th century The proceedings are entitled Acoustic Emission Beyond the Millennium to celebrate the new millennium and stepping forward to a new era The authors and topics of these review papers were selected by the editorial board

**Publications of the National Bureau of Standards** United States. National Bureau of Standards,1987 Special Nondestructive Testing Methods Roderick K. Stanley,Patrick O. Moore,Paul McIntire,1995 **Nondestructive Characterization of Materials** Paul Höller,Viktor Hauk,G. Dobmann,Clayton O. Ruud,Robert E. Green,2012-12-06 Engineering structures for reliable function and safety have to be designed such that operational mechanical loads are compensated for by stresses in the components bearable by the materials used Vhat is bearable First of all it depends on the properties of the chosen materials as well as on several other parameters e g temperature corrosivity of the environment elapsed or remaining serviceable life unexpected deterioration of materials whatever the source and nature of such deterioration may be defects loss of strength embrittlement wastage etc DEFECTS and PROPERTIES of materials currently determine loadability Therefore in addition to nondestructive testing for defects there is also a need for nondestructive testing of properties The third type of information to be supplied by nondestructive measurement pertains to STRESS STATES under OPERATIONAL LOADS i e LOAD INDUCED plus RESIDUAL STRESSES Residual stresses normally cannot be calculated they have to be measured nondestructively well approved elastomechanical finite element codes are available and used for calculating load induced stresses for redundancy and reliability engineers however need procedures and instrumentation for experimental checks

*Process Diagnostics: Volume 117* A. K. Hays,A. C. Eckbreth,G. A. Campbell,1988-09-09 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Intelligent Structures - 2 Y.K. Wen,1992-01-14 Proceedings of the International Workshop on Intelligent Systems held in Perugia Italy 27 29 June 1991

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