



Opinion

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Nondestructive Evaluation an Integral Part of Engineering

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Introduction

Non-destructive testing and evaluation (NDT&E) started as a tool to assess workmanship. Together with the related fields of condition-based maintenance and structural health it is recognized as central to ensuring initial product quality, as well as safety and reliability in service. NDT&E is now viewing a broader metamorphosis: it is moving from being focused on assessing and ensuring the reliability and both detection and sizing of discrete defects to a more complete material state assessment. It is becoming an integral part of in-process measurement and QA/QC including a range of advanced processes and materials.

Since the 1950's non-destructive testing (NDT) has also become known as non-destructive evaluation (NDE) and it has been an area that has seen continued research, growth and evolution. It is an area closely linked to applications in aerospace engineering, civil engineering, electrical engineering, material science and engineering, mechanical engineering, nuclear engineering, petrochemical engineering and based firmly on fundamental physics phenomena of energy-material interaction. It is an interdisciplinary endeavor that is as essential to engineering practice as stress analysis, including failure estimations and prognostics.

The various NDT&E measurement modalities, including using x-ray, ultrasound, electromagnetics as well as magnetic particles and penetrants have tended in large part to be relegated to be an after thought, only applied at the end of a manufacturing process. Increased use of advanced manufacturing, including using composites, additively manufactured materials, ceramics and a diverse range glued and solid state joints need material characterization and micro-structural level assessments, as well as parameters such as local, non-destructively measured, local strength data, if new materials, design concepts and applications are to be fully utilized. There is no longer an assumption of assessing

freedom from defects, designs need to live within a defined acceptable population of and allowable anomalies, and parts need to be retired based on an assessed condition rather than at a nominal life.

There is a need to consider design for inspectability, both for finished parts when using changing technologies including computed tomography and ultrasonic phased array combined with design application of NDE and stress analysis, both using computer modelling. Inspection data then needs to be able to be analyzed in the context of a 3-D visualization and finite element analysis. There is also a need for new tools and techniques that reduce the unreliability of the human aspects of inspection and use both automation and robotics, with data analysis to provide capability for both real-time and remote inspection assessment, including using wireless technologies in the context of innovations such as Industry 4.0.

The changes in the needed capabilities of NDE for material state assessment and analysis cannot just be met using a technician level activity with an ASNT or other entity certified inspector. There is a need for design and stress analysts engineers to have a better understanding of the capabilities and limitations of a multitude of NDE methods, including the statistics of performance measured using a probability of detection (POD) analysis. There is a need for at least some staff in manufacturing who can be an NDE engineer. Outside the USA such engineers are now increasingly being seen.

In looking at the changing landscape as NDE become material state awareness (MSA) a fundamental question is how to meet the science and technology needs for advanced manufacturing and the staffing skill set given loss of experts through retirement and engineering workforce demographics. Not everyone in manufacturing needs to be an NDE expert, but a pipeline is need to provide experts for industry, researchers for the R&D community in

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Chuck Hellier

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Proceedings of the ASME Nondestructive Evaluation Engineering Division--2004 ,2004-01-01 [Proceedings of the ASME Nondestructive Evaluation Engineering Division ... ,2005](#) **Proceedings of the ASME Nondestructive Evaluation Engineering Division ... ,2004** *American Book Publishing Record ,2006* **Nondestructive Testing of Deep Foundations** Bernard Hertlein,Allen Davis,2007-01-11 Nondestructive Testing involves the use of methods such as wave propagation electromagnetism electrical conductivity and thermal conductivity to test structural integrity and thereby allow nondestructive assessment of structures and the possibility of structural failures before they occur Nondestructive Testing of Deep Foundations covers different techniques designed to provide information about the integrity and quality of the material that makes up a deep foundation Nondestructive Testing methods are used at all stages of a structure's life from new construction quality control to residual lifetime prediction and even during the monitoring of demolition In addition Nondestructive Testing is being increasingly specified in deep foundation projects though often without a good understanding of its limitations and with the result that methods are often misused In order to be able to specify an appropriate method or to recognize an inappropriate specification it is necessary for the engineer specifier and or contractor to understand the capabilities and limitations of each of the methods currently in use Nondestructive Testing of Deep Foundations Describes the most commonly used deep foundation construction techniques including typical use of material Provides a brief history of the development of commercially available nondestructive methods Summarises each method's capabilities and limitations Acts as a one stop reference drawing together resources only previously available in conference proceedings and journal papers This manual will prove to be a welcome addition to the bookshelf of all practitioners in civil structural and geotechnical engineering and architecture It will also provide a valuable insight into this highly technical field for university researchers lecturers and postgraduate students in civil structural and geotechnical engineering **Common Airport Pavement Maintenance Practices** Jaroslav J. Hajek,2011 TRB's Airport Cooperative Research Program ACPR Synthesis 22 Common Airport Pavement Maintenance Practices explores how airports implement a pavement maintenance management program including inspecting and tracking pavement condition scheduling maintenance identifying necessary funds and treating distresses in asphalt and concrete pavements [Proceedings of the ASME Materials Division : the ASME Non-Destructive Evaluation Division : and the ASME Pressure Vessels and Piping Division--2006 ,2007](#) [Proceedings of the ASME Applied Mechanics Division ,2004](#) [Ground Penetrating Radar Theory and Applications](#) Harry M. Jol,2008-12-08 Ground penetrating radar GPR is a rapidly developing field that has seen tremendous progress over the past 15 years The development of GPR spans aspects of geophysical science technology and a wide range of scientific and engineering applications It is the breadth of applications that has made GPR such a valuable tool in the geophysical consulting and geotechnical engineering industries has lead to its rapid development and inspired new areas of research in academia The

topic of GPR has gone from not even being mentioned in geophysical texts ten years ago to being the focus of hundreds of research papers and special issues of journals dedicated to the topic. The explosion of primary literature devoted to GPR technology theory and applications has lead to a strong demand for an up to date synthesis and overview of this rapidly developing field. Because there are specifics in the utilization of GPR for different applications a review of the current state of development of the applications along with the fundamental theory is required. This book will provide sufficient detail to allow both practitioners and newcomers to the area of GPR to use it as a handbook and primary research reference. Review of GPR theory and applications by leaders in the field. Up to date information and references. Effective handbook and primary research reference for both experienced practitioners and newcomers. *Advanced Nondestructive Evaluation I*, 2006

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Thermal infrared testing Acoustic emission testing Digital radiography Ultrasonic phased array testing Ultrasonic guided wave inspection Shearography nondestructive testing [Handbook of Nondestructive Evaluation, Second Edition](#) Charles Hellier,2013 This book presents a detailed up to date discussion of today s most commonly used and emerging methods of nondestructive testingincluding background explanation benefits limitations applications and comparisons to destructive testing *Springer Handbook of Wood Science and Technology* Peter Niemz,Alfred Teischinger,Dick Sandberg,2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology **"Code of Massachusetts regulations, 2004"** ,2004 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Computing in Civil Engineering** ,2007 **Proceedings of the 8th Biennial Conference on Engineering Systems Design and Analysis--2006: Fatigue and fracture. Heat transfer. Internal combustion engines. Manufacturing. Technology and society** ,2006 **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis,Marquis Who's Who,2007-12 *Proposed Guideline for Reliability-based Bridge Inspection Practices* Glenn A. Washer,Massoud Nasrollahi,Christopher Applebury,Robert J. Connor,Adrian Ciolko,Robert Kogler,Philip Fish,David Forsyth,2014 TRB s National Cooperative Highway Research Program NCHRP Report 782 Proposed Guideline for Reliability Based Bridge Inspection Practices presents a proposed guideline for reliability based bridge inspection practices and provides two case studies of the application of the proposed guideline The guideline describes a methodology to develop a risk based approach for determining the bridge inspection interval according to the requirements in Moving Ahead for Progress in the 21st Century Act MAP 21 Publisher description **Review of Progress in Quantitative Nondestructive Evaluation** ,2005

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