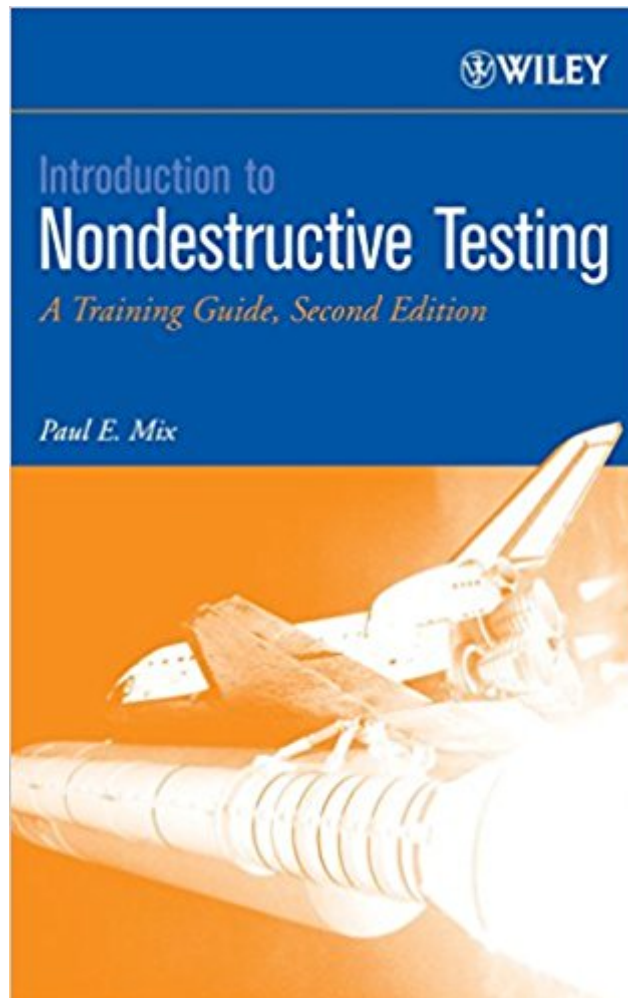




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Introduction To Nondestructive Testing: A Training Guide



Synopsis

This updated Second Edition covers current state-of-the-art technology and instrumentation. The Second Edition of this well-respected publication provides updated coverage of basic nondestructive testing (NDT) principles for currently recognized NDT methods. The book provides information to help students and NDT personnel qualify for Levels I, II, and III certification in the NDT methods of their choice. It is organized in accordance with the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A (2001 Edition). Following the author's logical organization and clear presentation, readers learn both the basic principles and applications for the latest techniques as they apply to a wide range of disciplines that employ NDT, including space shuttle engineering, digital technology, and process control systems. All chapters have been updated and expanded to reflect the development of more advanced NDT instruments and systems with improved monitors, sensors, and software analysis for instant viewing and real-time imaging. Keeping pace with the latest developments and innovations in the field, five new chapters have been added: * Vibration Analysis * Laser Testing Methods * Thermal/Infrared Testing * Holography and Shearography * Overview of Recommended Practice No. SNT-TC-1A, 2001. Each chapter covers recommended practice topics such as basic principles or theory of operation, method advantages and disadvantages, instrument description and use, brief operating and calibrating procedures, and typical examples of flaw detection and interpretation, where applicable.

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Customer Reviews

"...joins the group of respectable books in nondestructive testing...very valuable for certification in NDT methods, this book would be useful for college and University instructors as well." (Materials and Manufacturing Processes, May 2006) "A handy desktop engineering reference guide for material, welding, and metallurgical engineersA alsoA an engineering textbook for an undergraduateA or even graduate-level classA" (Journal of Metals Online, January 24, 2006)

Contains the background information needed by students and NDT personnel who want to qualify for NDT Levels I, II, and III certification-in accordance with the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A (August 1984 edition). Contents follow the general outline of SNT-TC-1A. Includes typical chapter questions and answers, as well as information on recent state-of-the-art developments. In the case of Level III certification, the book is meant to supplement the required hands-on laboratory and field training. College and university instructors should find the text especially useful in working with private industry and NDT employers. Coverage is broad in scope, making this guide a useful general reference. Topics covered include the theory and techniques of radiographic equipment, magnetic particle tests, ultrasonic testing, liquid penetrant tests, electromagnetic testing method, neutron radiographic testing, leak testing methods, acoustic emissions, visual inspection and holography. --This text refers to an out of print or unavailable edition of this title.

Copyright 1987, a little old but physics doesn't change much. A good book that has alot of the methods used in NDT and I feel like I've learned alot reading this book.

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Please check and I think you will find the subject book is a hardbound volume. Paul E. Mix, author.

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