

Handbook of Nondestructive Evaluation, Second Edition

By Chuck Hellier

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Handbook of Nondestructive Evaluation, Second Edition By Chuck Hellier

A complete, up-to-date guide to the leading product testing standard

Fully revised to cover the latest nondestructive testing (NDT) procedures, this practical resource reviews established and emerging methods for examining materials without destroying them or altering their structure. *Handbook of Nondestructive Evaluation*, Second Edition offers in-depth details on the background, benefits, limitations, and applications of each method. The book provides advice on how to interpret results and formulate accurate decisions based on your findings.

New chapters on digital radiography, ultrasonic phased array testing, and ultrasonic guided wave inspection are included. This is a must-have reference for NDT certification candidates, engineers, metallurgists, quality control specialists, and anyone involved in product design, manufacture, or maintenance.

Handbook of Nondestructive Evaluation, Second Edition covers:

- Introduction to nondestructive testing
- Discontinuities—origins and classification
- Visual testing
- Penetrant testing
- Magnetic particle testing
- Radiographic testing
- Ultrasonic testing
- Eddy current testing
- Thermal infrared testing
- Acoustic emission testing
- Digital radiography
- Ultrasonic phased array testing
- Ultrasonic guided wave inspection

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Editorial Review

About the Author

Charles Hellier Charles J. Hellier founded and was former President of Hellier Technical Training and Consulting. After the acquisition of his Company 1998, he remained as President then General Manager until his retirement in 2003. He continued as consultant with the company until retiring again in 2011. He has been active in the Technology of Nondestructive Testing and related Quality and Inspection fields since 1957, and is currently a principal of The Summit Group, LLC a company providing management and technical seminars and consulting services.

Michael Shakinovsky is an ASNT certificate holder in ultrasonics, radiography, magnetic particle, and penetrant testing. He has specialized in nondestructive testing for more than 40 years. Mr. Shakinovsky is currently the Corporate NDT Level III for Sikorsky Aircraft Corporation.

Users Review

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Mary Moore:

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