



Ultrasonic Methods of Non-destructive Testing (Non-Destructive Evaluation Series)

By J. Blitz, G. Simpson

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Ultrasonic Methods of Non-Destructive Testing covers the basic principles and practices of ultrasonic testing, starting with the basic theory of vibration and propagation, design and properties and probes, and then proceeding to the principles and practice of the various ultrasonic techniques for different types of components and structures, both metallic and non-metallic. The design and operation of various types of equipment are covered and references to appropriate national and international standards are provided. Numerous applications are discussed comprehensively and special attention is paid to latest developments. A large number of references is provided so as to enable the reader to obtain further information.

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Editorial Review

Review

Essential reading for all those working on this type of evaluation together with research and undergraduate students of materials science, metallurgy, mechanical engineering and physics. - Aslib Book Guide; The basic theory of vibration and propagation and the design and properties of probes are described, proceeding to the principles and practice of ultrasonic techniques for different types of components and structures, both metallic and nonmetallic. The design and operation of various types of equipment are described and references to appropriate national and international standards are provided. - Mechanical Engineering; ...a most welcome contribution to an area where, despite its importance, textbooks have been in short supply - Journal of Strain Analysis.

From the Back Cover

Ultrasonic Methods of Non-destructive Testing is essential reading for all those concerned with the non-destructive testing industry as well as undergraduate students of materials science, metallurgy, mechanical engineering and physics. The technique of ultrasonic testing is now by far the most practised form of non-destructive testing. It is extensively employed in the aircraft, nuclear, oil and gas industries. Ultrasonic Methods of Non-destructive Testing covers the basic principles and practices of ultrasonic testing, starting with the basic theory of vibration and propagation, design and properties of probes, and then proceeding to the principles and practice of the various ultrasonic techniques for different types of component and structures, both metallic and non-metallic. The design and operation of various types of equipment are covered and references to appropriate national and international standards are provided. Numerous applications are discussed comprehensively and special attention is paid to the latest developments. A large number of references is provided in order to enable the reader to obtain further information.

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