

Level I Questions

Ultrasonic Testing Method

1. The indication on the cathode ray tube (CRT) which represents the far boundary of the material being tested is called:
 - a. hash
 - b. the initial pulse
 - c. the main bang
 - d. the back surface reflection

HL2-8
2. In immersion testing, the position of the search unit is often varied to transmit sound into the test part at various angles to the front surface. Such a procedure is referred to as:
 - a. angulation
 - b. dispersion
 - c. reflection testing
 - d. refraction

F.45.10; HL3-12
3. The cable that connects the ultrasonic instrument to the search unit is specially designed so that one conductor is centered inside another. The technical name for such a cable is:
 - a. BX cable
 - b. conduit
 - c. coaxial cable
 - d. ultrasonic conductor cable-grade 20

HL3-13, Fig. 3-9
4. The process of comparing an instrument or device with a standard is called:
 - a. angulation
 - b. calibration
 - c. attenuation
 - d. correlation

F.43.37
5. Another name for a compressional wave is:
 - a. Lamb wave
 - b. shear wave
 - c. longitudinal wave
 - d. transverse wave

F.43.9; HL2-5
6. Another name for Rayleigh waves is:
 - a. shear waves
 - b. longitudinal waves
 - c. transverse waves
 - d. surface waves

HL2-32
7. A material used between the face of a search unit and the test surface to permit or improve the transmission of ultrasonic vibrations from the search unit to the material being tested is called:
 - a. a wetting agent
 - b. a couplant
 - c. an acoustic transmitter
 - d. a lubricant

HL3-21
8. The piezoelectric material in a search unit which vibrates to produce ultrasonic waves is called a:
 - a. backing material
 - b. Lucite™ wedge
 - c. crystal
 - d. couplant

HL2-7
9. Ultrasonic testing of material where the search unit is in direct contact with the material being tested may be:
 - a. straight beam testing
 - b. surface wave testing
 - c. angle beam testing
 - d. all of the above

HL4-7
10. An advantage of using lithium sulfate in search units is that it:
 - a. is one of the most efficient generators of ultrasonic energy
 - b. is one of the most efficient receivers of ultrasonic energy
 - c. is insoluble
 - d. can withstand temperatures as high as 700 °C (1 260 °F)

F.44.3; HL3-14

Ut Level 1 Study Guide

**Andreas Spillner, Tilo Linz, Thomas
Rossner, Mario Winter**



Ut Level 1 Study Guide:

Industrial Ultrasonic Inspection: Levels 1 and 2 Ryan Chaplin, 2017-05-16 Ultrasonic testing UT has been an accepted practice of inspection in industrial environments for decades This book Industrial Ultrasonic Inspection is designed to meet and exceed ISO 9712 training requirements for Level 1 and Level 2 certification The material presented in this book will provide readers with all the basic knowledge of the theory behind elastic wave propagation and its uses with the use of easy to read text and clear pictorial descriptions Discussed UT concepts include General engineering materials and components theory Theory of sound waves and their propagation The general uses of ultrasonic waves Comprehensive lab section Methods of ultrasonic wave generation Different ultrasonic inspection techniques Ultrasonic flaw detectors scanning systems and probes Calibration fundamentals General scanning techniques Flaw sizing techniques Basic analysis for ultrasonic phased array ultrasonic and time of flight diffraction inspection techniques Codes and standards Principles of technical documentation and reporting It is my intention that this book is used for general training purposes It is the ideal classroom textbook Ryan Chaplin

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Software Testing Practice: Test Management Andreas Spillner, Tilo Linz, Thomas Rossner, Mario Winter, 2007-08-24 Aimed at experts who are dedicated to software testing The Software Testing Process Test Management addresses the major issues related to advanced state of the art test management This book covers the syllabus required to pass the Certified Tester Examination Advanced Level as defined by the International Software Testing Qualifications Board ISTQB Software developers project managers quality managers and team leaders will benefit from the comprehensive coverage of risk oriented management and the way testing is shown to be an integral though independent part of software development Included are best practices in the field of testing as well as detailed descriptions of involved tasks roles and responsibilities Well suited for self study the reader is taken by the hand and guided through the key concepts and terminology of software testing in a variety of scenarios and case studies as featured in the first book in this series Software Testing Foundations Not only will testers and test managers find this a must read but anyone requiring advanced professional knowledge and skills in this field anyone wanting to become a true testing professional will find this book a must for a successful well founded education in advanced test management Topics include Test process and test tools Testing in the software life cycle Test policy and test manual Test

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