

to white light ratio exceeds 10 to 1. At that point, the inspection should not be attempted until the proper lighting conditions can be met.

To assure the operator that all fluorescent penetrant is removed during the washing process, a UV light should be placed over the wash station. Inside the inspection booth there should be at least one UV light and one white light source.

Cleanliness of lighting equipment is important. A dirty filter on a UV light will reduce the UV light intensity greatly. Line voltage is equally important in the operation of a UV light. A 10 V decrease in line voltage can decrease the UV light intensity by 10% or more. UV lights used in the inspection booth must be checked for intensity strength on a regular basis. The standard or specification covering the inspection should state the UV light intensity and the frequency for checking the intensity.

Ultraviolet lights have the potential to cause serious health problems when not handled properly and carefully. The filter and light housing can become very hot with temperatures reaching 389 °C (750 °F). Precautions should be taken to protect the inspector. In addition, when using a mercury vapor bulb, do not use the lamp as a source for white light or view the white light without the UV light filter installed. Use only approved UV lights in areas with flammable vapors. See Chapter 9, *Safety, Health, and Disposal* for information concerning the physiological effects of UV radiation.

Reference A, pp. 192-193

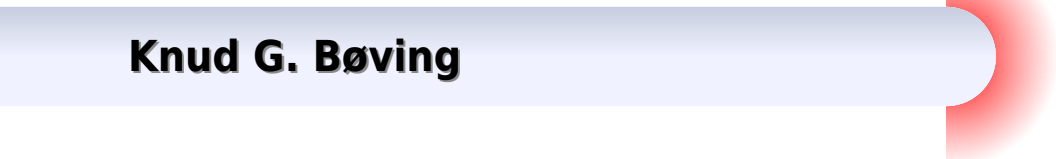
Reference B, pp. 83-94

Review Questions

- 6.1 The human eye does not respond the same to all colors in the visible light range. If all have the same brightness, the color that is easiest to detect is:
 - a. red.
 - b. yellow-green.
 - c. blue.
 - d. purple.
- 6.2 When fluorescent penetrant is used without developer, the UV light intensity recommended at the inspection surface is:
 - a. 800 $\mu\text{W}/\text{cm}^2$.
 - b. 1,200 $\mu\text{W}/\text{cm}^2$.
 - c. 1,500 $\mu\text{W}/\text{cm}^2$.
 - d. 3,000 $\mu\text{W}/\text{cm}^2$.
- 6.3 For dip tank applications, the developer that requires the least maintenance and quality testing is:
 - a. dry developer.
 - b. water-suspended developer.
 - c. solvent-suspended developer.
 - d. water-soluble developer.
- 6.4 Which of the following is not considered when evaluating fluorescent penetrant equipment for a specific facility?
 - a. The size of the material and parts to be inspected.
 - b. The production rate.
 - c. The type of light in the room.
 - d. The floor space needed for the equipment and material storage.
- 6.5 Which of the following should have the least consideration when determining whether the equipment should be stock modular units or a specially designed automated penetrant processor?
 - a. Optimum reproducibility.
 - b. The production rate.
 - c. The penetrant process that will be used.
 - d. The type and capacity of the utilities in the proposed test area.
- 6.6 The UV light intensity necessary for the detection of very fine indications is:
 - a. 750 $\mu\text{W}/\text{cm}^2$.
 - b. 900 $\mu\text{W}/\text{cm}^2$.
 - c. 3,000 $\mu\text{W}/\text{cm}^2$.
 - d. 5,000 $\mu\text{W}/\text{cm}^2$.

Asnt Level 3 Study Guide

Knud G. Bøving



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NDE Handbook Knud G. Bøving,2014-05-12 NDE Handbook Non Destructive Examination Methods for Condition Monitoring deals with monitoring of equipment structures and pipes in mechanical engineering in the processing industry in construction and in electrotechnical fields The book explains acoustic cross correlation involving leak detection in buried main water pipes or heating pipes by using special instruments to detect the flow noise generated at the point of fracture The acoustic emission method based on collection of vibrations or sound waves from the suspected material can detect changes occurring in the material Magnetic methods and eddy currents can measure the thickness of the coating on specific materials dye penetrants can expose cracks or cleavages in surface materials and emission spectroscopy can identify or sort the chemical composition of steel The book also describes an endoscope used to visualize the interior of objects and the electrical resistance probe that can measure the loss of material based on changes in the electrical resistance Other NDE methods that are used by investigators include stress pattern analysis by thermal emission pulsed video thermography Moire contour mapping holographic interferometry computerized tomography and positron annihilation The book will prove valuable for engineers physicists technicians operators involved in material research risk prevention or accident control and for general readers interested in materials quality and specifications *Materials Evaluation* ,2004 **Instrument and Automation Engineers' Handbook** Bela G. Liptak,Kriszta Venczel,2022-08-31 The Instrument and Automation Engineers Handbook IAEH is the Number 1 process automation handbook in the world The two volumes in this greatly expanded Fifth Edition deal with measurement devices and analyzers Volume one Measurement and Safety covers safety sensors and the detectors of physical properties while volume two Analysis and Analysis describes the measurement of such analytical properties as composition Complete with 245 alphabetized chapters and a thorough index for quick access to specific information the IAEH Fifth Edition is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries **AMMTIAC Quarterly** ,2006

Nondestructive Testing and Evaluation of Fiber-Reinforced Composite Structures Shuncong Zhong,Walter Nsengiyumva,2022-04-01 This book presents a detailed description of the most common nondestructive testing NDT techniques used for the testing and evaluation fiber reinforced composite structures during manufacturing and or in service stages In order to facilitate the understanding and the utility of the different NDT techniques presented the book first provides some information regarding the defects and material degradation mechanisms observed in fiber reinforced composite structures as well as their general description and most probable causes It is written based on the extensive

scientific research and engineering backgrounds of the authors in the NDT and structural health monitoring SHM of structural systems from various areas including electrical mechanical materials civil and biomedical engineering Pursuing a rigorous approach the book establishes a fundamental framework for the NDT of fiber reinforced composite structures while emphasizing on the importance of technique s spatial resolution integrated systems analysis and the significance of the influence stemming from the applicability of the NDT and the physical parameters of the test structures in the selection and utilization of adequate NDT techniques The book is intended for students who are interested in the NDT of fiber reinforced composite structures researchers investigating the applicability of different NDT techniques to the inspections of structural systems and NDT researchers and engineers working on the optimization of NDT systems for specific applications involving the use of fiber reinforced composite structures

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