Welding Principles and Applications 7th Chapter 2 Review Questions and Answers

1). What is the key to preventing accidents in a welding shop?

✔ Ans: Following the safety rules, regulations and the procedures for the welding process.

2). Who is ultimately responsible for the welder's safety?

✔ Ans: I am

3). Describe the three classification of burns?

✔ Ans: 1st degree- Surface of skin reddish, tender, & painful (no broken skin)
2nd degree- Surface of skin severely damaged, blisters & possible break in skin
3rd degree- Surface of skin & possibly tissue below skin appear white & charred

4). What emergency steps should be taken to treat burns?

✔ Ans: 1st degree- burn area under cold water or use cold water that compresses (No butter, No Grease)
2nd degree- burn area under cold water or use cold water that compresses. Any cold liquids you drink can be poured on burn (No ointments sprays, antiseptics, or home remedies)
3rd degree- Don't remove clothing. If victim on fire smother victim with blanket, rug, or jacket. Make sure victim is breathing. Cover with thick, sterile, non-fluffy dressings. Call ambulance. (No ice water or ice) (No ointments sprays, antiseptics, or home remedies)

5). List the three types of light that may be present during welding?

✔ Ans: Ultraviolet, Infrared, & Visible

6). Which type of light is the most likely to cause burns? why?

✔ Ans: Ultraviolet causes 1 & 2 degree burns to eye or skin if welder is close to arc with higher current & quicker burn

Welding Principles Applications 7th Edition Answer Key

Joacim Rocklöv

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    <u>Failure Investigation of Boiler Tubes: A Comprehensive Approach</u> Paresh Haribhakti,P.B. Joshi,Rajendra Kumar,2018-01-01 Failures or forced shutdowns in power plants are often due to boilers and particularly failure of boiler tubes This comprehensive resource deals with the subject of failure investigation of boiler tubes from basic fundamentals to practical applications Coverage includes properties and selection of materials for boiler tubes from a metallurgical view point damage mechanisms responsible for failure of boiler tubes and characterization techniques employed for investigating failures of boiler tubes in thermal power plants and utility boilers of industrial commercial institutional ICI boilers A large number of case studies based on the actual failures from the field are described along with photographs and microstructures to allow for easy comprehension of the theory behind the failures This book is geared to practicing engineers and for studies in the major area of power plant engineering For non metallurgists a chapter has been devoted to the basics of material science metallurgy of steels heat treatment and structure property correlation A chapter on materials for boiler tubes covers composition and application of different grades of steels and high temperature alloys currently in use as boiler tubes and future materials to be used in supercritical ultra supercritical and advanced ultra supercritical thermal power plants A comprehensive discussion on different mechanisms of boiler tube failure is the heart of the book Additional chapters detailing the role of advanced material characterization techniques in failure investigation and the role of water chemistry in tube failures are key contributions to the book The authors have long standing experience in the field of metallurgy and materials technology failure investigation remaining life assessment RLA and fitness for service FFS for industrial plant and equipment including power plants They have conducted a large number of failure investigations of boiler tubes and have recommended effective remedial measures in problem solving for power and utility boilers   <u>Collier's Encyclopedia</u> ,1986

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