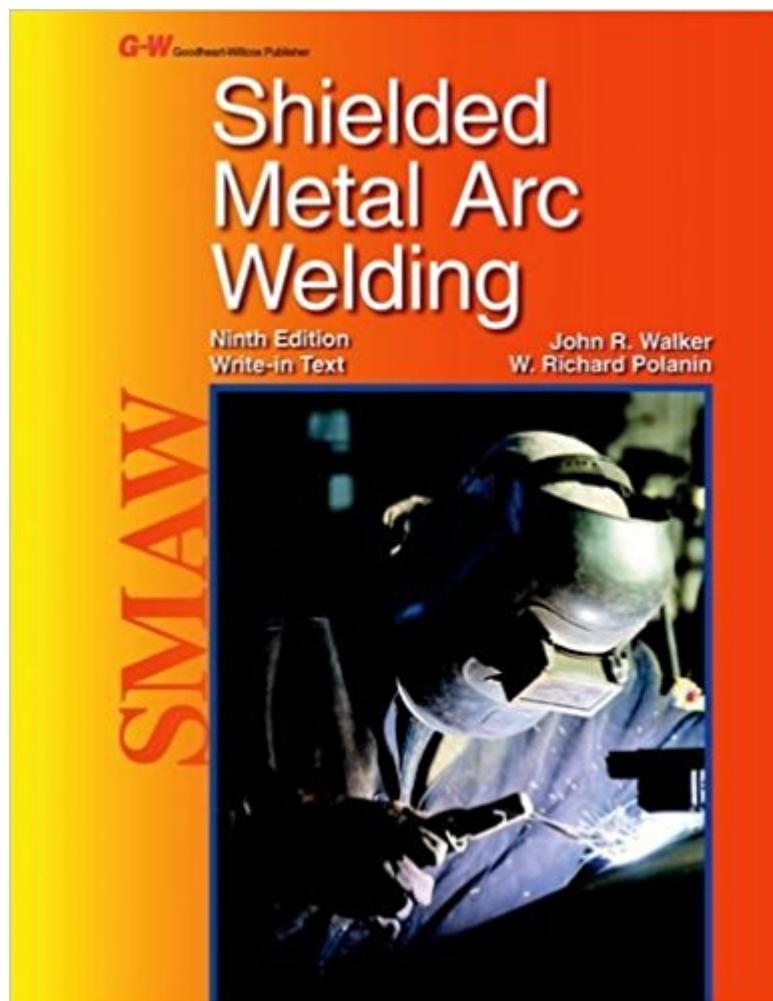


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Shielded Metal Arc Welding



Synopsis

Shielded Metal Arc Welding is a write-in text that progresses from basic theory to specialized techniques. It focuses on the shielded metal arc welding (SMAW) process. A unit on welding problems provides solutions that students can use when they encounter an issue. This text prepares students for the Written Knowledge and Workmanship Performance Tests for Module 4 of AWS SENSE Level I – Entry Welder certification. A Write-in format allows students to work at their own pace and instructors to easily monitor student progress and comprehension. Many content updates added for this edition, including additional fire safety and protection content; information on unclassified electrodes and welding positions; information on filler metal content, weld penetration, voltage polarity, low hydrogen electrodes, and deposit rate; and new information on nondestructive testing, destructive testing, and the responsibilities of a welding inspector.

Book Information

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Customer Reviews

John R. Walker is the author of thirteen textbooks and has written many magazine articles. Mr. Walker did his undergraduate studies at Millersville University and has a Master of Science degree in Industrial Education from the University of Maryland. He taught industrial arts and vocational education for thirty-two years and was Supervisor of Industrial Education for five years. He also worked as a machinist for the U.S. Air Force and as a draftsman at the U.S. Army Aberdeen Proving Grounds. W. Richard Polanin is a professor at Illinois Central College, as well as the coordinator of the Manufacturing Engineering Technology and Welding Technology programs. Dr. Polanin has a bachelor's and master's degree from Illinois State University and a doctorate degree

from the University of Illinois. In addition to his twenty-five years of teaching, he is an active consultant in welding and manufacturing. He is an AWS Certified Welding Inspector, AWS Certified Welding Educator, and a SME Certified Manufacturing Engineer. He has published numerous technical papers and has made many technical presentations in the areas of welding, manufacturing, robotics, and manufacturing education.

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