

# Chapter 5

## SMAW: Equipment and Supplies

### Learning Objectives

After studying this chapter, you will be able to:

- Describe the differences between direct current (dc) and alternating current (ac).
- Interpret American Welding Society (AWS) abbreviations regarding welding current polarity.
- Identify the equipment and accessories used in shielded metal arc welding (SMAW).
- Identify factors to consider when selecting an arc welding machine.

### Technical Terms

alternating current (ac)  
bridge rectifier  
chipping hammer  
constant current (CC)  
constant voltage (CV)  
cover plate  
cycle  
diode  
direct current (dc)

direct current electrode  
negative (DCEN)  
direct current electrode  
positive (DCEP)  
direct current reverse  
polarity (DCRP)  
direct current straight  
polarity (DCSP)  
droop curve machines

droopers  
duty cycle  
electrode holder  
electrode lead  
filter lens  
flash goggles  
frequency  
gauntlet gloves  
helmet  
hertz  
input power  
inverter  
lug  
open circuit voltage (OCV)  
polarity  
primary current

rated output current  
secondary current  
shielding gas  
shielded metal arc  
welding (SMAW)  
silicon-controlled  
rectifier  
slag  
step-down transformer  
terminals  
voltage drop  
welding outfit  
welding station  
wire brush  
work booth  
workpiece lead

### Shielded Metal Arc Welding Principles

*Shielded metal arc welding (SMAW) is a welding process in which the base metals are heated to fusion or melting temperature by an electric arc. The arc is created between a covered metal electrode and the base metal. A **shielding gas** protects the base metals, arc, electrode, and weld from the atmosphere during welding. The shielding gas is created as the flux covering on the electrode melts. When the flux solidifies, it forms a protective slag over the weld bead. The melting electrode wire furnishes filler metal to the weld. See Figure 5-1.*

# Welding Technology Fundamentals Chapter Review Answers

**J Ma**



## **Welding Technology Fundamentals Chapter Review Answers:**

**Welding Technology Fundamentals** William A. Bowditch, Kevin E. Bowditch, 1991 *Welding Technology Fundamentals* covers the equipment and techniques associated with the welding and cutting processes most widely used in industry today. These processes include oxyfuel gas welding and cutting, shielded metal arc welding, gas metal arc welding, flux cored arc welding, gas tungsten arc welding, and resistance welding. Technical information regarding weld inspection and testing, welder qualification, drawing interpretation, and welding symbols is also included. The text is organized into eight sections which can be studied independently or in sequence. Written in easy to understand format, this text is extensively illustrated and includes many tables and charts for selecting the variables required to make a good weld. **School Shop/tech Directions**, 1990

*Fundamentals of Modern Manufacturing* Mikell P. Groover, 2002. Materials processes and systems are the building blocks of modern manufacturing. This second edition of Mikell Groover's comprehensive text on the subject provides substantial coverage of engineering materials and production systems. *General Electric Review* General Electric Company, 1929

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*Automotive*, 2013-03-28    **Resources in Education**, 1978    **Fundamentals of Machine Elements, Third Edition**  
Steven R. Schmid, Bernard J. Hamrock, Bo. O. Jacobson, 2013-11-04. *Fundamentals of Machine Elements Third Edition* offers an in depth understanding of both the theory and application of machine elements. Design synthesis is carefully balanced with design analysis, an approach developed through the use of case studies, worked examples, and chapter problems that address all levels of learning taxonomies. Machine design is also linked to manufacturing processes, an element missing in many textbooks. The third edition signifies a major revision from the second edition. The contents have been greatly expanded and organized to benefit students of all levels in design synthesis and analysis approaches. What's New in This Edition: Balances synthesis and analysis with strong coverage of modern design theory. Links coverage of mechanics and materials directly to earlier courses with expansion to advanced topics in a straightforward manner. Aids students of all levels and includes tie in to engineering practice through the use of case studies that highlight practical uses of machine elements. Contains questions, qualitative problems, quantitative problems, and synthesis design and projects to address all levels of learning taxonomies. Includes a solutions manual, book website, and classroom presentations in full color, as well as an innovative tear sheet manual that allows instructors to present example problems in lectures in a time saving manner. Expands contents considerably. Topics: the importance of the heat affected zone in welding, design synthesis of spur, bevel, and worm gears, selection of multiple types of rolling element bearings including deep groove, angular contact, toroidal, needle, and cylindrical and tapered

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