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3.2.2 Aluminothermic Welding3.3 Electric Arc Welding Processes; 3.3.1 Nonconsumable Electrode Arc Welding Processes; 3.3.1.1 Gas-Tungsten Arc Welding; 3.3.1.2 Plasma Arc Welding; 3.3.1.3 Magnetically Impelled Arc Butt Welding; 3.3.2 Consumable Electrode Arc Welding Processes; 3.3.2.1 Gas-Metal Arc Welding; 3.3.2.2 Shielded-Metal Arc Welding; 3.3.2.3 Flux-Cored Arc Welding; 3.3.2.4 Submerged Arc Welding; 3.3.2.5 Electrogas Welding; 3.3.2.6 Electroslag Welding; 3.4 Resistance Welding Processes; 3.4.1 Resistance Spot, Resistance Seam, and Projection Welding
3.4.2 Flash, Upset, and Percussion Welding3.5 High-Intensity Radiant Energy or High-Density Beam Welding Processes; 3.5.1 High-Energy-Density (Laser and Electron) Beam Welding Processes; 3.5.2 Focused IR and Imaged Arc Welding; 3.5.3 Microwave Welding; 3.6 Summary; References and Suggested Reading; 4 NONFUSION WELDING PROCESSES; 4.1 General Description of Nonfusion Welding Processes; 4.2 Pressure (Nonfusion) Welding Processes; 4.2.1 Cold Welding Processes; 4.2.2 Hot Pressure Welding; 4.2.2.1 Pressure Gas Welding; 4.2.2.2 Forge Welding; 4.2.3 Roll Welding; 4.2.4 Explosion Welding
4.3 Friction Welding Processes4.3.1 Radial and Orbital Welding; 4.3.2 Direct-Drive Versus Inertia-Drive (Friction) Welding; 4.3.3 Angular and Linear Reciprocating (Friction) Welding; 4.3.4 Ultrasonic (Friction) Welding; 4.3.5 Friction Stir Welding; 4.3.6 Friction Surfacing; 4.4 Diffusion Joining Processes; 4.4.1 Diffusion Welding; 4.4.1.1 Conventional Diffusion Welding; 4.4.1.2 Deformation Diffusion Welding; 4.4.1.3 Resistance Diffusion Welding; 4.4.1.4 Continuous Seam Diffusion Welding; 4.4.2 Diffusion Brazing; 4.4.3 Combined Forming and Diffusion Welding
4.5 Solid-state Deposition Welding Processes

Sommario/riassunto

An advanced yet accessible treatment of the welding process and its underlying science.Despite the critically important role welding plays in nearly every type of human endeavor, most books on this process either focus on basic technical issues and leave the science out, or vice versa. In Principles of Welding, industry expert and prolific technical speaker Robert W. Messler, Jr. takes an integrated approach--presenting a comprehensive, self-contained treatment of the welding process along with the underlying physics, chemistry, and metallurgy of weld formation.Promising to bec