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Research Guide: Welding Technology

This research guide is a bibliography listing some of the many reference sources for Welding Technology available at FLITE. These materials are designed to give students and researchers a starting point for a particular topic and will usually point the way toward other, more in-depth sources relating to that topic.

Dictionaries and Encyclopedias

Standard Welding Terms and Definitions: Including Terms for Brazing, Soldering, Thermal Spraying and Thermal Cutting: Industry correct and nonstandard terms are both included in this 153-page compilation of over 1,200 definitions. Add precision and clarity to your technical writing with the correct usage of welding terms. Also includes the Master Chart of Welding and Allied Processes and the Joining Method Chart.

Located in Reference: TS 227.5 .A63 S72 1989

Handbooks, Manuals, etc.

Metric Practice Guide for the Welding Industry: The most accepted version of the International System of Units (SI). Included are the base units, supplementary units, derived units, and most importantly, the rules. Also covered are conversion factors and rules for their use in converting customary inch-pound units to SI units. Recommendations are presented for style and usage in such areas as prefixes, punctuation, number grouping, etc.

Located in Reference: TJ 227.2. M48 1998

Inspection Standards

Guide for the Visual Examination of Welds: This guide contains information to assist in the visual examination of welds. Included are sections on prerequisites, fundamentals, surface conditions, and equipment. Sketches and full-color photographs illustrate discontinuities commonly found in welds.

Located in Reference: TS 227.2. V5 2000

Welding Inspection Handbook: Presenting inspection details in a clear, no-nonsense style, the new edition of the *Welding Inspection Handbook* includes chapters on operations, inspection safety, welding metallurgy, heat treating, welder qualification, NDE and more. The *Handbook* can also be used as a training manual for inspectors, engineers, and welders to teach the important difference between discontinuities in a weld and rejectable weld defects.

Located in Reference: TS 227 .A449 2000

Quality Control

Standard for Components of Robotic and Automatic Welding Installations: Performance recommendations for evaluating components of a typical robotic or automatic welding installation emphasizing the role of the welding interface. Chapters include arc welding power sources, torches and accessories, dereeler for welding wire, shielding gas delivery systems, electrode feeding equipment, welding circuit, communication control wiring, and system grounding. Developed in conjunction with the National Electrical Manufacturers Association and ANSI Approved.

Located in Main Stacks (3rd Floor): TS 227.2 .S73 1994

Weld Integrity and Performance: This general reference is a compilation of selected articles from various ASM International publications that deal with structural welds involving important ferrous and nonferrous engineering metals and alloys. Practical information on weldability, weld properties and performance, weld failure-prevention methods, and failure analysis of welds can be used to help solve real-world problems. Also included is information on basic welding metallurgy, weld discontinuities and imperfections, fatigue and fracture, testing and inspection, and repair procedures.

Located in Main Stacks (3rd Floor): TS 227.2 .V38 1997

Safety Measures

Safety in Welding, Cutting and Allied Processes: This Standard provides minimum requirements and recommendations to protect persons who work in an environment affected by welding, cutting, and allied processes from illness and injury, and to prevent damage to property arising from the installation, operation, and maintenance of equipment used in such processes.

Located in Main Stacks (3rd Floor): TS 227.8 .S23 1999

Standards

Sheet Metal Welding Code: This ANSI-approved standard covers the arc and braze welding requirements for sheet metal. Sheet Metal Welding Code includes procedures and performance requirements, as well as welding workmanship and valuable inspection standards. Developed under the guidance of the AWS D9 Committee on the Welding, Brazing, and Soldering of Sheet Metal, the code was created and has been updated to meet the specialized needs of sheet metal and construction industries.

Located in Main Stacks (3rd Floor): TS 227 .S54 2000

Specification for Resistance Welding of Carbon and Low-Alloy Steels: This ANSI-approved specification provides for a program covering the minimum shear strength and weld button diameter requirements for carbon steel and low-alloy steel sheet resistance and projection welds. Developed by the AWS Committee on Resistance Welding and the AWS Task Group on Resistance Welding of Coated & Uncoated Carbon and Low-Alloy Steels, this specification contain guidance from the experts in resistance welding.

Located in Main Stacks (3rd Floor): TK 4660 .R473 1999

Specification for Welding Procedure and Performance Qualification: This universal qualification document is an excellent tool to ensure economical quality. Covers all welding processes and an exhaustive array of materials used in metal fabrication. Indispensable for those who design and manufacture non-code products but who may also be performing to ISO 9000. Experience shows Specification for Welding Procedure and Performance Qualification adapts to the requirements of ISO 9000.

Located in Main Stacks (3rd Floor): TA 492 .W4 S73 1998

Internet Resources

For Internet Sources on Welding Technology see
<http://www.ferris.edu/library/Subject/welding.htm>