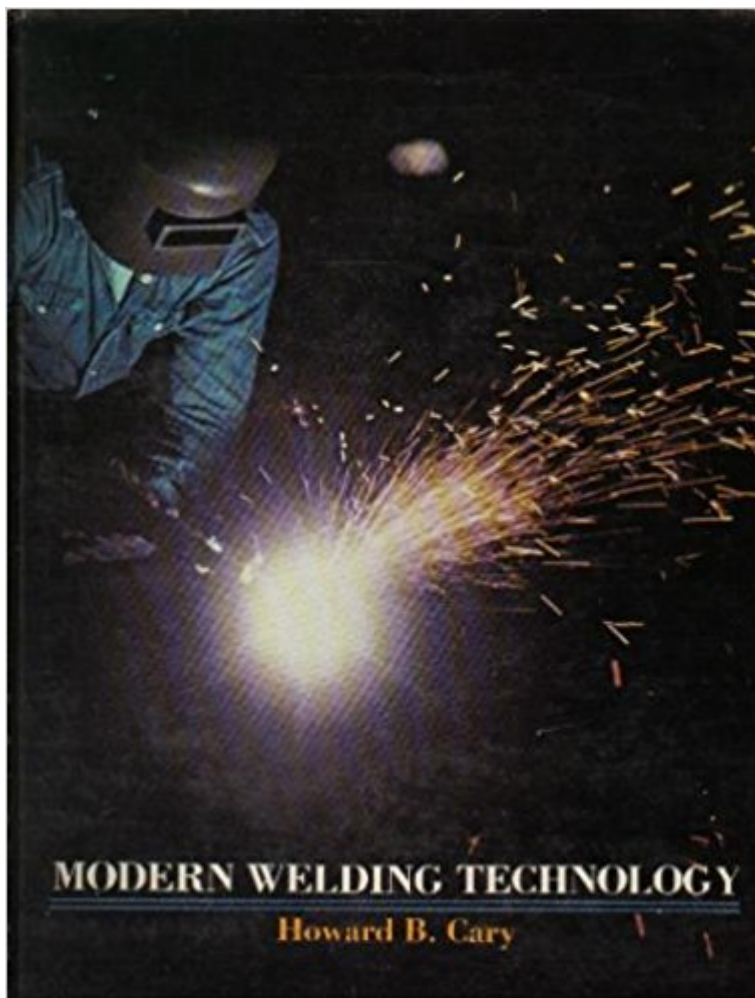


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# Modern Welding Technology



## Synopsis

For courses in Basic Welding and Welding Technology. This well-respected, introductory welding text contains coverage of the latest codes, materials, and processes necessary to become proficient in an ever more complex industry. The technology of welding is growing and the book's focus on arc welding processes and the use of steel in construction reflect those changes-while continuing to provide a comprehensive coverage of basic principles and theory. --This text refers to an out of print or unavailable edition of this title.

## Book Information

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## Customer Reviews

Here is a new edition of the classic text/reference in the area of introductory welding. This unique combination of theory and practice will provide readers with a strong foundation for success in both the field and in further study of welding, metallurgy, manufacturing design, and more. KEY FEATURES OF THIS EDITION: A new section on underwater cutting. Chapter 1, "Surveying the Welding Industry," has been updated and rewritten. New and revised American Welding Society definitions have been added. Water jet cutting and automatic shape cutting have been expanded. Robotic welding and computer control systems have been updated to reflect the latest technology. New coverage of packaging filler materials. Computer Aided Design and its use in finite element analysis has been added at an elementary level. New reference section reflect the latest industry specifications. New and replacement illustrations provide a more modern look. --This text refers to an out of print or unavailable edition of this title.

Welding continues to be the preferred method of permanently joining metal parts. As welding

becomes more computer-driven, the technology becomes more complex. Worldwide, welding continues to grow, and that growth is dependent upon the growth of the steel and other metal industries. In the United States, a major change has been replacing the old-faithful stick welding, used for so many years, with wire welding. The need to improve weld quality and reduce welding costs continues unabatedly. This is the highest priority because of improved materials and fabricating methods. Semi-automatic welding has largely replaced manual welding, and automatic and robotic welding are being widely accepted in the industry. Adaptive control is rapidly becoming more widely used. More powerful computer controls and more rugged sensors are becoming popular. All of this has helped take the human welder farther away from the arc and fumes, and helped clean up the welder's environment. Welding power sources have experienced a revolution. The faithful motor generator welding machine is almost extinct. The buzz box transformer welding machine is extinct. These have been replaced by the new inverter power source, which offers many advantages. The inverter is smaller, lighter in weight, and very controllable; with new features it is becoming accepted for most applications. Some welding processes have become more popular and others more refined. For example, the laser is more widely used, especially for cutting, and a new process, stir friction welding, is starting to be used to join aluminum for automotive and space applications. Throughout the world many new alloys are being developed. Metals compete with plastics, composites, ceramics, and any material that will serve the need. The end result is the most economical material for a given application. Many new steels and alloys are being welded today, including higher strength thermomechanically processed steels. Steels with lower carbon and lower impurity elements are available with high strengths based on the particular heat treatment. New steels for high-temperature applications have been developed. New grades of stainless steel that combat corrosion are appearing. New aluminums containing lithium and other elements are being utilized in the aircraft industry. Nonmetallic materials are advancing. Plastics have been greatly improved, and there are now composite beams available to build bridges. Ultimately, the most suitable material for the lowest price will be used for every application. The welding industry will determine the welding method. Welding education and training are changing. Today there is less emphasis on skill training for stick welding, but more emphasis on technology training. We must be able to select the proper application of welding to increase productivity. A more thorough understanding is needed. That is the purpose of this book. A major breakthrough has been accomplished by the joint American Welding Society (AWS) and the Welding Research Council program for providing the optimum way to make a quality weld. Standard welding procedures have been issued that show the preferred way to make a particular weld. This should greatly reduce

welding costs since it saves the expense of duplicating qualifying procedures and allows the portability of welding credentials. It is a great step forward. The American Welding Society continues to make welding-related occupations more professional. By standardizing the qualification and certification of personnel, public confidence in welding will increase. AWS has become the welding authority in the United States and is providing ways to educate welding inspectors, teachers, technicians, and engineers. This is done through increased training, testing, and certification of knowledge, based on proficiency testing. The original concept of this book has been maintained, with emphasis on the arc welding processes and the use of steel for industrial and construction uses. The book still follows faithfully the standards, codes, and specifications provided by the AWS. It allows the reader to keep up-to-date as welding technical information and technology improvements advance. Truly, the industry is moving rapidly, and the welding is improved and more productive. --This text refers to an out of print or unavailable edition of this title.

Alright basically in a nutshell, I'm involved in metallurgy in school at the moment. And this book is often used by our instructors (A welding engineer, and materials engineer of many years respectively) to relate key facts as well as a direct guide through some of the more difficult processes and concepts around welding and metallurgy. This book isn't just limited to welding engineers, I would recommend it to any: 1) Journeyman welder 2) B-Pressure welder 3) weld Inspector, or inspector in training 4) Non Destructive Examination technicians 5) apprentice welder who wants an easier time of things. 6) pressure boiler safety authorities, or the equivalent. There are of course many more I would recommend for this material, though for brevity's sake I'd like to outline that there are many exams and metallurgy based topics that this book covers in detail, and quite well. Please note that my experience is limited to Canadian standards, and am not well-versed in other areas of the world...yet.

I will keep this book for as long as it holds together. Plenty of usable reference tables. The history sections are a bit wordy but all the metallurgy, power source and various process sections are thoroughly informative.

Great buy. Must less than buying this book through the college.

It was what I needed.

Great place to buy textbooks.

Good info for Beginning Welders like Me

I was expecting a bit more on the science of the process and not so much the logistics of the processes. This seems like a handy guide for a technical school class or shop class. If I ever get my hands on a welder at home, this will prove to be a great guide. For the processes used in today's industries, it is a bit out of date.

This was a used text book for a college class. It was in good condition, as described. It arrived in a timely manner and saved us about a \$100.00!! This is the place to buy textbooks!

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