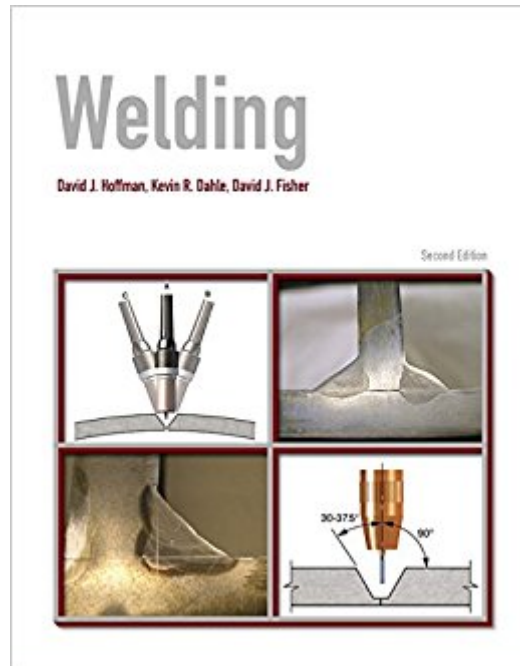




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# Welding (2nd Edition)



## Synopsis

An easy-to-read and highly visual “diameter of electrodes” approach to welding. Most textbooks do not cover smaller diameter electrodes well. Welding does. With over 50 years combined experience, the authors have created a book that is both reference-friendly and incredibly engaging to students and professionals alike. With setups for every important weld and step-by-step procedures and photos for every step, this is the only book on welding you will ever need. Welding provides readers with cleanly designed and concise chapters. Essential coverage of safety, theory, key skills, easy-to-read reference charts and tables, detailed step-by-step procedures, and a strong emphasis on the diameter of electrodes is covered in a simple, yet comprehensive way. After an introduction to welding and to welding safety, each major welding process is presented in its own chapter so they can easily be discussed in the classroom. Following the weld processes, chapters focus on critical topics such as codes, destructive and non-destructive weld testing, welding symbols, welding metallurgy, welding ferrous and nonferrous alloys, and welding power sources. The Second Edition has been updated to include a new chapter on pipe welding and techniques, a new macro look at metallurgy, and a more procedural approach to welding alloys. Welding codes and testing have also been split into two separate chapters, for accessibility and ease of use.

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## Customer Reviews

An easy-to-read and highly visual “diameter of electrodes” approach to welding.

Most textbooks do not cover smaller diameter electrodes well. Welding does. With over 50 years combined experience, the authors have created a book that is both reference-friendly and incredibly engaging to students and professionals alike. With setups for every important weld and step-by-step procedures and photos for every step, this is the only book on welding you will ever need. **Welding** provides readers with cleanly designed and concise chapters. Essential coverage of safety, theory, key skills, easy-to-read reference charts and tables, detailed step-by-step procedures, and a strong emphasis on the diameter of electrodes is covered in a simple, yet comprehensive way. After an introduction to welding and to welding safety, each major welding process is presented in its own chapter so they can easily be discussed in the classroom. Following the weld processes, chapters focus on critical topics such as codes, destructive and non-destructive weld testing, welding symbols, welding metallurgy, welding ferrous and nonferrous alloys, and welding power sources. The Second Edition has been updated to include a new chapter on pipe welding and techniques, a new macro look at metallurgy, and a more procedural approach to welding alloys. Welding codes and testing have also been split into two separate chapters, for accessibility and ease of use.

The authors of *Welding, 2/e* have experience both in industry and in the classroom. Their industry experience brings together knowledge of welding and manufacturing, welding inspection and quality control, power source design, troubleshooting, and customer service. These experiences, combined with more than 50 years of instructional expertise, inspired the development of this textbook and its accompanying technology. **David Hoffman** Member, American Welding Society Certified Welding Inspector Certified CRAW Technician Fox Valley Technical College An accomplished welder with thousands of hours of hands-on experience, Dave Hoffman has been teaching welding and fabrication for more than 25 years. He assisted with the development of an Associate Degree program in Automated Manufacturing at Fox Valley Technical College and developed an Associate Degree program for Welding Technology. He also received a state grant to redevelop the Metal Fabrication/Welding Diploma program for which he wrote program requirements, competencies, and the complete curriculum. After completing development of the Associate Degrees in Welding Technology, Dave tested and passed the requirements to become an AWS CWI and CWE. Shortly after, he got involved with AWS and was on the B5E Committee, helping to write the B5.5: 2000, Specification for the Qualification of Welding Educators. Most of the welder certifications in that standard were already certified, however some were not. Dave welded GMAW-S vertical up and overhead plates to certify the welding procedure used in the standard. A past winner of the

prestigious Lincoln Award, Dave holds a B.S. in Industrial Education and an M.S. in Technical Education from the University of Wisconsin - Stout. He also holds (and wrote) a patent on a product he designed and built in his home shop, and since retiring from teaching, occasionally works as a weld consultant for training and testing in industry.

Kevin Dahle Member, American Welding Society Member, Artist Blacksmith Association of North America Certified Welding Inspector Fox Valley Technical College Kevin Dahle has twenty years of experience teaching as a welding instructor at the Associate Degree and Vocational Diploma levels. In addition, he has taught welding apprentices, as well as related welding courses for transportation technology students and agriculture students. Kevin has been involved in training for industry and responsible for overseeing welder and procedure qualifications as an AWS Certified Welding Inspector.

Kevin's educational background includes an AS in Industrial Welding Technology, a BS in Vocational, Technical and Adult Education, and an MA in English. His occupational experience in welding consists of production welding, repair welding, structural welding, and quality control • writing and overseeing quality programs for structural welding and boiler repair.

David Fisher Member, American Welding Society Certified Welding Inspector Fox Valley Technical College David Fisher has five years of experience teaching as a welding/metal fabrication instructor at the Associate Degree and Vocational Diploma levels. In addition, he has taught welding apprentices, as well as related welding courses for transportation technology students and agriculture students. David has been involved in training for industry and responsible for overseeing welder and procedure qualifications as an AWS Certified Welding Inspector.

Prior to his academic career, David worked for Miller Electric Manufacturing Company. He was initially hired to build new inverter welders and eventually joined the service department where he conducted repair, maintenance, and operation of welding power sources and accessories for customers. As an application technician for Tig Industrial Products, David provided information and advice to customers, welding distributors, and salesmen regarding the GTAW and SMAW processes.

David holds an AS Degree in Electrical Engineering Technology and is currently working on his BS in Mechanical Engineering.

I cannot imagine a better written or illustrated book on welding. I've been at this for over 40 years, and I learned something in every chapter. Excellent....perhaps extraordinary illustrations.

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