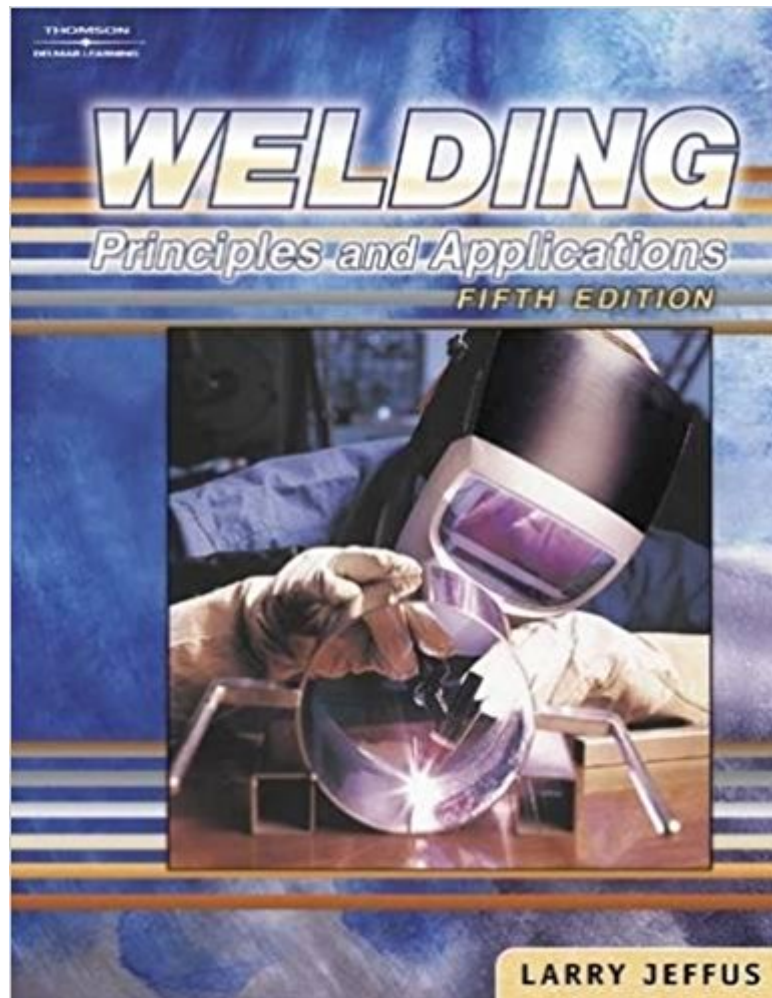




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Welding: Principles And Applications, Fifth Edition



Synopsis

Available in full-color, the fifth edition of *Welding: Principles and Applications* features more tight shots of actual welds to speed beginners to an understanding of a variety of different welding processes used today. Moving quickly from basic concepts to the study of today's most complex welding technologies, each section begins by introducing readers to the materials, equipment, setup procedures, and critical safety information they need to know to successfully execute a specific process. Remaining chapters in the section zero in on individual welding tasks and must-know techniques. Comprehensive coverage spans from specific welding processes to discussion of related topics, including welding metallurgy, metal fabrication, weld testing and inspection, joint design, and job costing. Objectives, key terms, review questions, lab experiments, and practice exercises in every chapter are also included to focus attention on information and skills required for success as a professional welder.

Book Information

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INTRODUCTION. Introduction to Welding. Safety in Welding. SHIELDED METAL ARC WELDING. Shielded Metal Arc Equipment, Setup, and Operation. Shielded Metal Arc Welding of Plate. Shielded Metal Arc Welding of Pipe. Advanced Shielded Metal Arc Welding. CUTTING AND GOUGING. Flame Cutting. Plasma Arc Cutting. Related Cutting Processes. GAS SHIELDED WELDING. Gas Metal Arc Welding Equipment, Setup, and Operation. Gas Metal Arc Welding. Flux

Cored Arc Welding Equipment, Setup, and Operation. Flux Cored Arc Welding. Other Constant-potential Welding Processes. Gas Tungsten Arc Welding Equipment, Setup, Operation, and Filler Metals. Gas Tungsten Arc Welding of Plate. Gas Tungsten Arc Welding of Pipe. RELATED PROCESSES. Welding Joint Design, Welding Symbols, and Fabrication. Welding Codes, Standards, and Costs. Testing and Inspection of Welds. Welder Certification. Railroad Welding. RELATED PROCESSES AND TECHNOLOGY. Welding Metallurgy. Weldability of Metals. Filler Metal Selection. Welding Automation and Robotics. Other Welding Processes. OXYFUEL. Oxyfuel Welding and Cutting Equipment, Setup, and Operation. Oxyfuel Gases and Filler Metals. Oxyacetylene Welding. Soldering, Brazing, and Braze Welding

Larry Jeffus is a welder with over 55 years of welding experience, and he has his own well-equipped welding shop. In his welding career he has passed many welding certification tests in a wide variety of processes, positions, and on many different material types and thicknesses. Larry has provided welding and professional consulting services locally, nationally, and internationally to major corporations, small businesses, government agencies, schools, colleges, and individuals. He is a Life Member of the American Welding Society. Larry Jeffus has over forty years experience as a dedicated classroom teacher and is the author of several Delmar Cengage Learning welding publications. Prior to retiring from teaching, Professor Jeffus taught at Eastfield College, part of the Dallas County Community College District. Since retiring from full-time teaching, he remains very active in the welding community, especially in the field of education. He serves on several welding program technical advisory committees and has visited high school, college, and technical campuses in more than forty states and four foreign countries. Professor Jeffus was selected as Outstanding Post-Secondary Technical Educator in the State of Texas by the Texas Technical Society. Professor Jeffus has served for 12 years as a board member on the Texas Workforce Investment Council in the Texas Governor's office where he works to develop a skilled workforce and bring economic development to the state. He served as a member of the Apprenticeship Project Leadership Team where he helped establish apprenticeship training programs for Texas, and he has made numerous trips to Washington lobbying for vocational and technical education. Larry Jeffus holds a Bachelor of Science Degree and has completed post graduate studies.

The book is a serious must own for those interested in getting the best out of their welding. Much of the equipment pictured or referenced is old but the principles remain. If I have a criticism it would be that nearly all measurements are in the imperial system. It would be nice if it was in metric after all

the US is one of the last bastions, with the UK, still clinging to this antiquated system. But if your prepared to take the time and do the conversions you won't be disappointed.

A good text for the beginning welder who needs good direction and detailed instructions. For those who have been involved in welding for a while, this book may prove somewhat less appealing although it may be a good addition to your bookshelf should you need to refer back to some long forgotten details about welding. Clear and concise directions and format should appeal to all reading levels.

I had a previous edition of this book for a class I took. This edition appears to be more accurate. Pictures and diagrams are excellent. I believe this book will do exactly what I want it to do, refresh my knowledge on the welding techniques that I learned in my classes.

If you need this text book for a class, it's great. If you're buying to teach yourself to weld, then there are probably better ones out there. Some of the text is worded awkwardly, and the end of chapter questions often arent phrased the same way the "answer" is in the text. came as expected in brand new condition

Just as described. The next version of this book is published, but class was still calling for this one. Don't forget the workbook that goes with this class book.

Looking back, i think i could have skipped the text book and just relied on the instructors notes. Lots of good information in it, but the frequent new and unnecessary revisions are a testament to selling books vs. selling good information. Welding technology doesn't change every 3-5 years.

This is a required text for my son's college welding course. As an amateur, still learning processes, I recognize the wealth of knowledge and practical applications found throughout this textbook. I can say, in my opinion, this is of the very best on the subject.

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