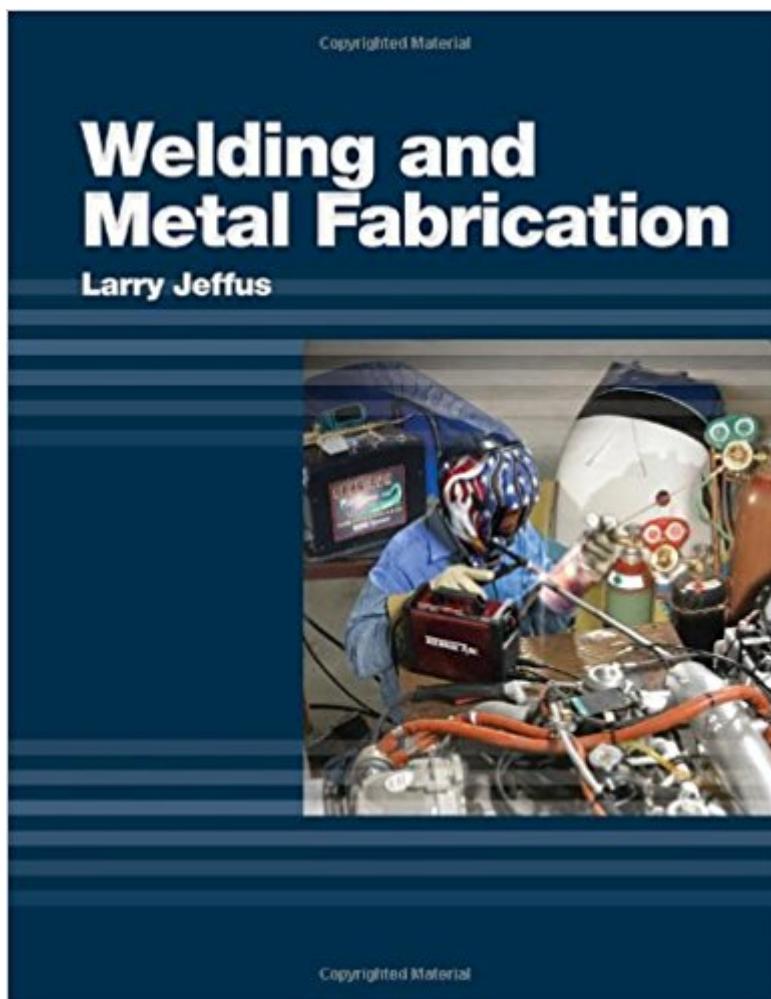


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# Welding And Metal Fabrication



## **Synopsis**

WELDING AND METAL FABRICATION employs a unique hands-on, project-based learning strategy to teach welding skills effectively and keep you motivated. This groundbreaking new book connects each welding technique to a useful and creative take-home project, making exercises both practical and personal--and avoiding the tedium of traditional, repetitive welding practices. To further enhance the learning process, every welding project includes a set of prints with specifications, like those used in production fabrication shops. This full-featured approach to skill-building reflects the reality of professional welding, where following prints and instructions precisely and laying out, cutting out, and assembling weldment accurately are just as essential as high-quality welding. The included projects are small to conserve materials during the learning process, but detailed instructions and abundant photos and illustrations guide you through a wide range of fabrication skills. Key steps and techniques within the small projects are also linked to larger projects presented at the end of each chapter, enabling you to apply what you have learned by fabricating and welding something more substantial. This thorough, reader-friendly book also prepares you for real-world success by covering shop math and measurement, time and material tracking, and invoicing.

## **Book Information**

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## **Customer Reviews**

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.

I borrowed this textbook through a system that allows people to borrow books from almost any library in Michigan. On top of that, I borrowed a number of other welding textbooks. I did this because I was taking a welding class and didn't have the money to buy the textbook our class prescribed (Welding by David J. Hoffman, Kevin R. Dahle and David J. Fisher, 2011). I was able to get the Hoffman book my class prescribed via a library eventually, but it is nowhere near as good as this textbook--Welding and Fabrication by Jeffus. In fact, I recommended it to my welding teacher and she said that was the book they previously used for the welding and fabrication program, but the program wanted to get a book that can be bought in an ebook version, so they switched. What a mistake. Plus, I don't think a single student in our program would prefer an ebook. Anyway, back to the book, this is an easy to read and understand text. It covers way more than any of the other textbooks I looked at without going on and on. It's actually fun and interesting to read--not boring at all. It covers MIG, TIG, STICK, FLUX-CORE, OXY-FUEL WELDING AND CUTTING, BRAZING AND SOLDERING, BLUE PRINT READING (excellent section), PLASMA CUTTING, and TONS of other topics that anyone who actually knows welding will be familiar with. This is the Bible of Welding. It covers everything. ALSO, I liked that after each section, a project was suggested/assigned with all the details of how to do it. No other textbook has this. Why? Don't they

think people actually want to make something now that they read the ins and outs of a new welding method? I liked the weather vain project especially."Look Inside" the book preview for a better understanding of all this book covers. I was going memory with my all-caps list above. I just bought this book (FINALLY!!!). It will be my go-to resource on welding as I explore all the projects I have in mind--for MIG welding the parts of some sculptures I'm planning to cast, to some public-use bike hoops. There's a lot to know when it comes to welding--all the machine settings, which gases to use for the metal you select, etc. so keep a good book at your fingertips. I suggest this one, and I rarely feel this confident giving a recommendation. I'm not typically one to be so emphatic about something in particular.

This book is far better than most basic books. It covers far more detail, while not delving into some of the mathematics that you might find in the Welding handbook. This is a practical book that reads fast and easy, but is interesting and contains a lot of valuable information and techniques.

This was the book used at my vo-tech. Good reference for welding.

I'm just finishing my first year of welding training at Hennepin Technical College and am currently working as an entry level MIG and TIG welder. This book vastly increased my knowledge of the welding trade. This book covers all the typical welding processes one would learn in said technical setting i.e. (SMAW, GMAW, FCAW, GTAW and OAW). The book also covers multiple cutting processes such as Carbon arc, Plasma, and Oxyfuel cutting. Covering everything from Metallurgy all the way to chapters on Blueprint reading. I highly recommend this book to ANYONE especially someone new to the trade or someone just beginning at a vocational school. This book would even be great review or refresher material for anyone who is highly experienced. I've read a handful of other welding textbooks and this is one by far covers the widest range of material.

Great Book. Lots of useful information.

Worth every cent. Advanced training and info. Must have for anyone wanting proper info. It will not substitute for hands on training but will put you ahead of the power curve in every way. Great in depth info on any process you care to brush up on, learn about before purchasing equipment, etc. Extremely well written, illustrations and pics first class. Five star plus!

How I feel about this book. Material is well organized. material is easy to read. material is easy to remember. the kindle makes it aquard to use appendices and reference charts.

Great book for any welder & Fabricator

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