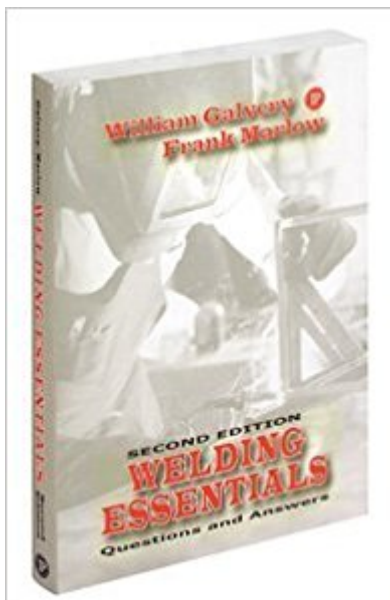


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# Welding Essentials



## Synopsis

As a concise yet thorough introduction to the topic, this new edition of *Welding Essentials* makes welding easy for beginners and is a handy reference for professionals. Its unique, comprehensive question-and-answer format will allow readers to quickly find what they are looking for and fully understand it. Eliminating non-essential items to prevent overloading readers, *Welding Essentials* addresses safety hazards and required precautions in detail and provides solutions to common problems for each process. Additionally, this valuable reference carefully explains step-by-step setup and shutdown procedures, along with why equipment grounding and GFI's are needed and the way in which they work. Welding tip sizes for differing metal thickness, as well as proper pressure settings for those tips and how to determine what the size is as related the non-standard numbering systems used by manufacturers. New and improved drawings throughout. Discussions on Carbon Arc Cutting with air, Plasma Arc Cutting, and Laser Cutting. More thorough information related to the proper sizing of oxy-fuel cutting tips and pressure charts, and bore drill sizes for the various tips. More thorough explanation of common welding elements. New information on the wire feeding process and more in-depth information related to the use of the tungsten electrodes. Friction stir welding process.

## Book Information

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## Customer Reviews

William Galvery Bill graduated from California State University, Long Beach with a Bachelor of

Vocational Education. Professor Galvery has more than 30 years of industrial welding experience. He is an American Welding Society (AWS) Certified Welding Inspector and a Certified Welding Educator. In 2003 the AWS presented him with the Howard E. Adkins Memorial Instructor Award, its prestigious national teaching recognition award. And for the second time he was chosen AWS District 21 Educator of the Year. Also in 2003, Bill was also presented with an Excellence in Education Award by the University of Texas, Austin. Bill has served as an officer for the AWS Long Beach/Orange County Section and recently retired as Professor of Welding Technology and Welding Department coordinator at Orange Coast College in Costa Mesa, California.

There seems to be some disagreement on the format of this book. The author chose to present the information in a very stodgy, rigid, question and answer style of format. As a reader (or a student..) you will either like this approach....or not. I can see both sides of this disagreement...the material is presented very factually and with supporting documentation, but the 'answers' to the questions don't allow for much discussion. While very much 'on point' there is very little room for any sort of diversion which would add to the usefulness of the book. The material is presented under major topic headings which makes it somewhat usable, although I will admit that locating specific information can be a bit tiresome. I can find no major disagreement with the information as presented. It is a fairly thorough walk (trudge..???) through the varied topics that surround welding. I found the material informative and the images quite clear in their stated purpose. There are no color images depicted, but the black/white and line drawings appear very well done. The topic headings seem well thought out and the material presented logically. So, like I said, no major faults as far as the material goes. But, therein lies some of the problem. Looking for something specific can be a major exercise and in fact, the material may not be adequately covered. This because the 'answers' are specific to very specific questions....so what do you do if the information you need is similar but not exactly as depicted in the 'question'??? I will tell you what to do.....Look somewhere else!! There are a couple of saving graces to the book. One is the more than adequate glossary. It is well done and seems quite complete. There is also an index which DOES save you a little effort when trying to look something up...although it is only about six pages long...so it's not terribly complete. And, cross-referencing is almost non-existent. So, three stars for 'WELDING ESSENTIALS' because it is just a little too obtuse. The inherent problems with this style of format are hard to overcome in a READABLE, quality book. Would not recommend this as a solo purchase for a welding primer, although as an adjunct piece it is really quite good and has an abundance of information on the individual subjects that are covered. I am going to keep it and read it again (and probably again!!..).

Lots of useful information, just hard to dig through. After a thorough second reading, it may come up to four stars (It's close!!..)

This was actually a book that my professor used in my intro to welding class. It works well for a textbook, but I would not suggest this book for someone trying to learn how to weld. It has great information in general, but it does not really give you a step-by-step instruction on techniques, things to watch out for, etc. when it comes to welding in any form. As for me, this worked perfectly for my needs. This class had a separate lab where we learned hands-on welding through another source, so this book presenting the facts/metallurgy around welding is helpful. It presented a lot of information on a large variety of topics, so I would definitely call this a great catch-all welding topics book. The Q&A format is interesting, but not something I prefer, especially as it's difficult to quickly find something in that section. The questions were oddly specific in some parts where more general information would have been more helpful in my opinion. Lastly, there seemed to be some errors in the metallurgy section, specifically with the transformation hardening of steel and the conversion of martensite. Overall, I would definitely recommend this book as a great overview of welding in general, with a solid amount of information and very detailed, very helpful pictures and diagrams.

Is anybody else missing pages 175-206? There may be more pages that I am missing, but I am not going to page by page to figure that out. Otherwise a very good book. Answers a lot of basic welding questions. I am going to check with the publisher to see if I can get a new COMPLETE copy.

I have purchased two of these books and both came in as described, well written and easy to understand. I would recommend this book to anyone who is interested in the welding essentials subject.

This is one of the few welding books I actually read, I keep it in my truck and look to it often. some info is a bit dated, but most is not.

Exactly the book I was looking for. Received it in a very timely manner.

Book was as promised. We received it quickly.

AWESOME

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