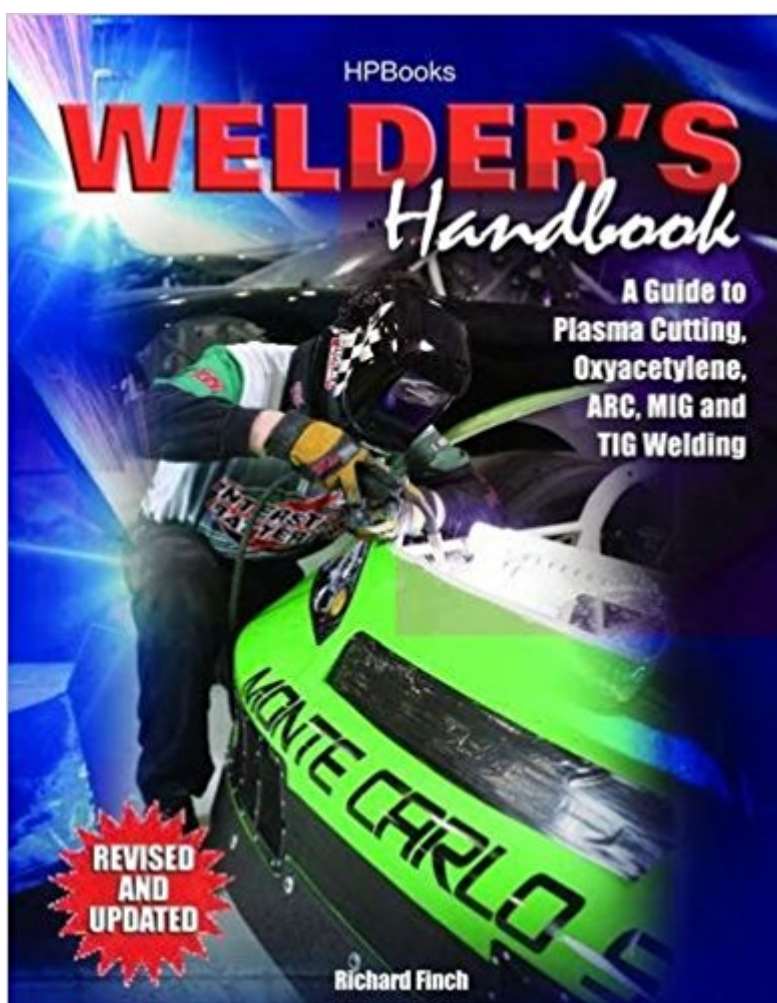


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# Welder's Handbook, Revised HP1513: A Guide To Plasma Cutting, Oxyacetylene, ARC, MIG And TIG Welding



## Synopsis

A newly-updated, state-of-the-art guide to MIG and TIG arc welding technology. Written by a noted authority in the field, this revised edition of HP's bestselling automotive book-for over 20 years-is a detailed, instructional manual on the theory, technique, equipment, and proper procedures of metal inert gas (MIG) and tungsten inert gas (TIG) welding.

## Book Information

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## Customer Reviews

Richard Finch is a noted authority on and teacher of welding techniques. He gives lectures and seminars, and teaches vocational courses on welding.

Welder's Handbook is a good introductory text to basic welding. Yes, it does not have an endless amount of detail on most welding processes. And yes, in order to actually weld, you'll have to actually weld. But reading this book first, and then getting basic instruction from someone who knows how to perform the type of welding you're interested in, will get you off the ground very effectively. The author, Richard Finch, who has been welding for decades, arranges the book by all the basic topics. He covers equipment, safety basics and metal basics, along with cleaning and fitting. He discusses oxyacetylene welding (and cutting) in considerable detail, using oxy welding to communicate basics of creating a weld pool, heating metal, and so forth. Later chapters cover arc (stick) welding, MIG welding, TIG welding, plasma cutting, and special processes. Within each chapter Finch covers techniques as they apply to the welding of

different metals. He then suggests some projects and additional references for further reading. That's it. Nothing fancy, and not a lot of wasted words. Would I pay \$150 for this "the cost for the much more voluminous "Welding Processes And Applications," frequently used as a textbook? No. But I'd happily pay \$10 or \$15 for this, and did. And, with some minimal instruction and practice, I can weld "casually, not professionally. If I practiced more, I'd weld better, and this book helped my confidence level in getting started. For the home handyman, that's usually all one needs.

This is a 2007 update of Finch's 1997 classic by the same name. It is also important to note that this is the 3rd Edition of this book, which says a lot about the "staying power" of information in the book and Mr. Finch's ability to convey the knowledge he has. I have known of Richard Finch, his writings, and works for over 30 years now (more from the experimental aviation movement than anything else) & have found him to be an authority on the topics for which he writes. Not surprising since he is both a trained engineer and certified welder. The book is described as a "guide" & that is the best way to think about it. It is not so much a "how to" text as a text that lets the novice know what is possible now in the world of metal fabrication, and the amateur welder with limited experience (or only knowledge of one method of welding) be able to self-transition into the other methods of welding. There are numerous very clear, crisp and explanatory photos, as well as diagrams & charts with the only drawback being that they are all in B&W. Of additional value, there are frequent photos of completed projects/jobs that are referenced in the text - including a SCCA race car Mr. Finch campaigned which had a tube frame that was completely joined only by gas brazing (Page 85). The general thrust of the book is toward automotive applications, but there are also examples from aviation and even marine fabrication. He includes a chapter on various useful smallish projects that can be used to practice one's welding skills. Though this is now a 10 year old edition, it is my understanding that Mr. Finch has passed and as such we can't expect any new edition coming out, though this book was usually updated about every 10 years. While the mention of recent advances in welding will become dated, much of the other information in the book gained by Mr. Finch over the course of his career will become more valuable, such as when to use brazing in auto restoration (especially if you don't have a donor car to cannibalize) - see page 80-81. He also covers several other potentially "lost techniques" such as Oxyhydrogen welding of aluminum, something that may be of interest to some readers who are already proficient with gas & don't want to dish out money for a MIG welder. If you have any interest in welding, buying this book will not be a waste of time or money & it will be a reference you will keep for quite some time in your welding library - I know I

have all three editions and intend to keep them all for the rest of my time in welding! RIP Richard Finch.

More of a survey than a professional's shop text. A more descriptive title might be "Metal Fabricator's Handbook". Focus upon race car fabrication: high strength but light duty and light weight structure. Fair survey of the common techniques of manual and production. Definitely add to hobbyist and DIY library.

informative for anyone who is trying to learn about welding especially as related to automotive uses

Not a bad reference book.

This not an in depth instructional guide for any specific type of welding. It is a good overview of all types of welding. I will keep it in the shop for future reference. I found it informative and helpful.

Excellent book for those wanting to learn to weld. Most helpful to explain that there is more to welding than buying a machine and learning what a sound weld is.

Quite a good read and contains some good information as overview. Could do with more detail educational instruction for novices and core welding/brazing skill enhancement

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