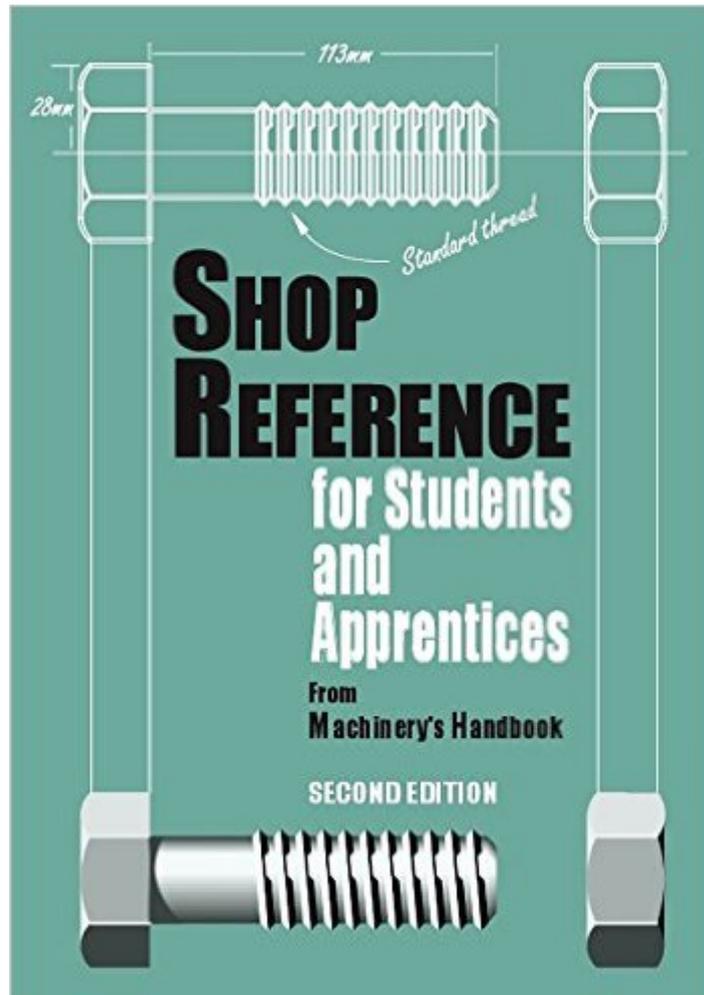


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# Shop Reference For Students & Apprentices



## Synopsis

From the ability to understand and use shop mathematics to the reading and interpreting of shop drawings, the editor's intent is to provide the information and know-how that students will need as they prepare themselves for jobs in metalworking industries. It includes material taken from Machinery's Handbook and other authoritative sources and is presented in as clear, accurate, and easy-to-follow form as possible. The reader will find a wide range of useful formulas and data together with extensive text. As a proven and affordable handbook covering those critical areas of interest commonly encountered by machinists, toolmakers, diemakers, drafters, and other shop and manufacturing personnel, it is an essential reference for students in vocational schools, technical institutes, and apprenticeship courses. Discusses those aspects of applied mathematics needed on the job and covers the proper use of measuring instruments and methods. Outlines the standard methods of presentation and the conventions used in preparing engineering drawings. Offers detailed information on inch and metric standard tolerances, allowances, limits and fits, preferred numbers and sizes, as well as in-depth descriptions of the sizes, forms, dimensions of standard machine elements commonly encountered in and around the shop. Provides machining methods and materials selection, recommended speeds and feeds for various kinds of machining operations on different materials, and the types and compositions of metals commonly used in machine construction. Includes an extensive index that will enable the user to quickly and conveniently find the information and data that he or she requires.

## Book Information

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## Customer Reviews

This shop reference for students and apprentices was not what I was expecting. I bought it for metrology references to help train some line inspectors. It has since become well thumbed and greasy because my machinists keep borrowing it, preferring it over the complete handbook. They like that it's not as detailed and just covers what they need to know.

Very poorly edited. There are two sections that specifically try to explain tapping speeds but they repeat the exact same information. Also, one of the sections is pulled straight from the machinery's handbook and references tables that do not appear in this book. When you look up this topic in the index it points you to the section that refers to the missing tables and makes no mention of the other section. Again, very poorly edited. I do not recommend it.

I keep this book in my toolbox at work. It has the vital information I need for around the shop such as feed and speed rates for the lathe and mill, broaching and drilling, indexing. Plenty of useful information concerning screw threads, keys and keyseats, allowances and tolerances in english and metric, inspection, and tons of the math needed for geometry and trig. Way too much information to list. Excellent book. This information comes from the "Machinery's Handbook" and other sources but is smaller and fits nicely in the top of my toolbox.

This is the standard machine shop reference book for machinist or anyone machining. It is widely used in machine shops and Universities and is a condensed version of The Machinists Handbook. Pros: Reliable reference for machining. Easy to understand. Compact. Good for most machining applications in hobby machining. Cons: Hard to navigate. Too much information for most students. Suggested Improvements: Add some type of tab system to easily find sections or have a dedicated section for frequently used information. Overall: Good for most applications. This is really the standard reference for most Universities so you may be stuck there. For professional machining you'll probably need to have the full Machinists Handbook.

This book is very handy regardless of whether you are a machinist, in school, or just work with tools. It tells you the speeds for drilling, milling, and etc. for several sizes of bits. You can also find out thread types and sizes easily. I highly recommend buying this book even if you don't need it for classes.

While the title says "for students and apprentices", this book is an EXCELLENT basic ref book - and

small enough to fit in a toolbox. I'd love to see indexed pages for sections (makes fast look-ups difficult), had to add my own "tabbies"... but I keep grabbing it over and over. Surprising how its got the answer you need - RIGHT THERE! It sits on my bench, and was the best buy I made in quite a while!

I was a little bit disappointed in this as it really is only a reference guide as it says it is. Nothing in there on how to machine, or tips on machining, only references on machining tables, materials, some good info on drills and taps, but the majority of it I don't have any use for as a hobby machinist. I'll keep it for reference though.

Perhaps I didn't do my research well enough. The material in this book comes straight out of the Machinery's Handbook. If you have that, you don't need this. I like that the content has been pared down to cover 99% of what most machinists need, but was hoping that the book would have the essentials only, in larger print.

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