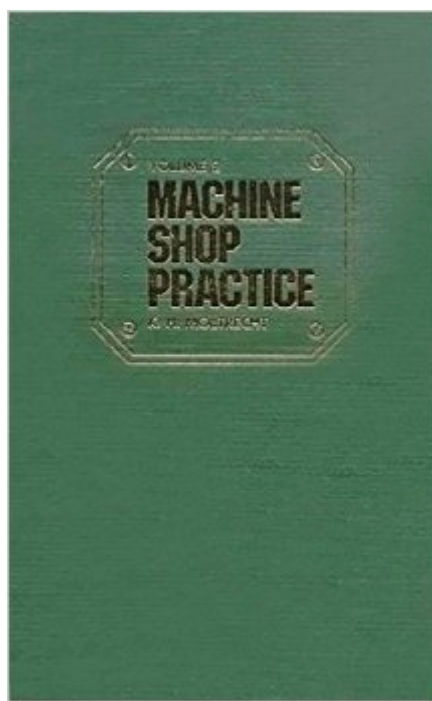


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# Machine Shop Practice, Vol. 1



## Synopsis

Everything the apprentice or on-the-job professional needs to know about the intelligent and efficient operation of machine tools is here. Includes over 760 illustrations and 70 tables in two volumes. Offers sections on numerical control; grinding wheels (that includes the newest abrasive materials); single point cutting tools and tool wear; basic drilling machine setups; and formulas for estimating the power required for planing. Provides detailed discussions on methods of setting up the workpiece on milling machines, horizontal boring machines, planers and shapers.

## Book Information

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Average Customer Review: 4.3 out of 5 stars [See all reviews](#) (20 customer reviews)

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## Customer Reviews

I would rate it as one of the best books on lathe turning. Volume 1 covers the lathe operation in detail. Volume 2 covers the milling machine in detail. The book has too much information for the absolute beginner to absorb all at once so I would suggest that the operator reads the book a few times after he/she has become familiar with the lathe. I recommend this book highly simply because it is so detailed in the description of every turning operation. There could have been more drawings to compliment the detailed text but I doubt whether a better book on the lathe exists.

So clearly written! Plus, fills gaps in the knowledge of even experienced professionals. Did you know that a large lead angle on the side-cutting edge of a boring tool could be what's causing all the chatter? Ask your know-it-all boss if he knew how to troubleshoot that! Practice rocks.

This is an excellent book. The engineering, materials, and physics information applicable to running common machining operations is covered. Formulas which explain how to choose what speed to run a tool at are covered. It has helped me correct problems I have had from running metal machining tools at the wrong speed. Be sure to buy both volumes.

Overall this is a very good book. This moderately experienced home shop machinist definitely learned from it. I have only read volume 1. The only gripe I have is that despite the copyright date the text and especially the photos are very dated. More 50's and 60's than the 1981 copyright date. That's OK for the most part, but there is no discussion any modern machinery, I think DROs got about two paragraphs. This book is definitely more detailed than Machine Shop Trade Secrets or Machine Shop Essentials and a good addition if you already have these. If you're OK with not having a book on the latest machinery and technology this is a good reference.

The book's 1981 publication date doesn't indicate that this is really a post-WWII-era text. "Offers sections on numerical control; grinding wheels (that includes the newest abrasive materials)" is wildly optimistic, even from an 1980's perspective. If you're looking for a basic text on lathe operations, this is probably as good as any from the mid 1900s. It is certainly better than Audel's, for example, and on par with the 1950s texts that I inherited. If you're looking for a book that discusses current machine shop practice, I'd look elsewhere.

One of the best texts out there for manual machines. Vol 1 is lathes, saws - vol 2 is milling machines shapers and grinders. Excellent learning tool. Not dumbed down like current texts with so much safety procedures you never see how to cut or turn. Complete - usefull as a reference. Has all the machines with all the features you'll find in a hobby or manual shop. Published in 1981 so still relevant. Highly recommende as a buy.

This book is a "must have". It is a great memory jogging tool. It serves as a "30 years out of trade school" refresher. I particularly like the speeds and feeds section. I highly recommend this book to hobbist and machinst alike. There's something for everyone!

This book is terrific if you just want good information without all of the shiny pictures. Fantastic reference!

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