

LittleMachineShop[™]

The premier source of tooling, parts,
and accessories for bench top machinists.



Home Machinists Series

2019 Book Catalog





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Basic Benchwork for Home Machinists

By Les Oldridge

- **A hands-on guide to engineering benchwork covering all the basics**
- For apprentices and amateur metalworkers
- Learn the skills and procedures for files, punches, hand filers, and more
- Contains helpful diagrams, tables, and black and white photos
- Begin a career in metalwork engineering and know the proper practices early on to avoid common mistakes

For amateur metalworkers, this book is a practical, hands-on guide to engineering benchwork that teaches all the valuable hand tool skills and procedures for files, punches, hand filers, and more. Well-illustrated with concise technical diagrams, tables, and black and white photos, you'll learn all the tricks and gain a solid foundation in the basics of engineering benchwork.

Paperback · 128 pages · 6" x 8"
978-1-4971-0057-2 · LittleMachineShop.com #1150
Imprint: Fox Chapel Publishing
\$14.99

Available August 2019



Making Metal Clockworks for Home Machinists

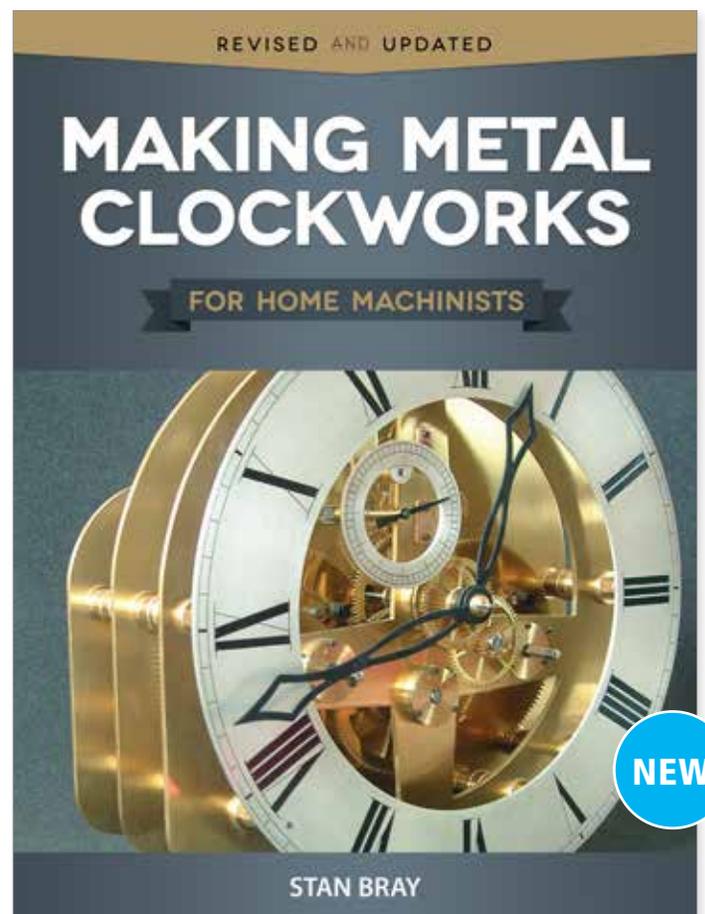
By Stan Bray

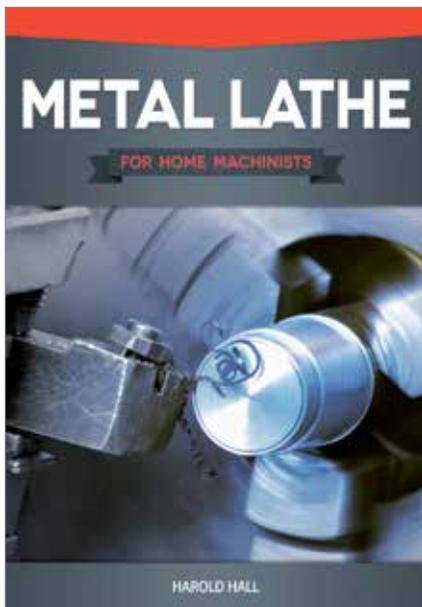
- **Explains terms, general forms of clock construction, tools, materials, and methods**
- An introductory guide to horology for beginners
- Learn the layout and creation of wheels, escapements, pinions, pendulums, and more
- With expert advice, know the best ways to make specialized items
- Includes black and white photography and easy-to-understand figures

Revised and newly updated, *Making Metal Clockworks* is an introduction to horology for the complete beginner. Explaining the terminology and general forms of clock construction, you'll learn about the materials and methods and understand everything from and the layout of wheels and escapements to the making of wheels, pinions, pendulums, and so much more.

Paperback · 128 pages · 6" x 8"
978-1-4971-0059-6 · LittleMachineShop.com #1151
Imprint: Fox Chapel Publishing
\$14.99

Available September 2019





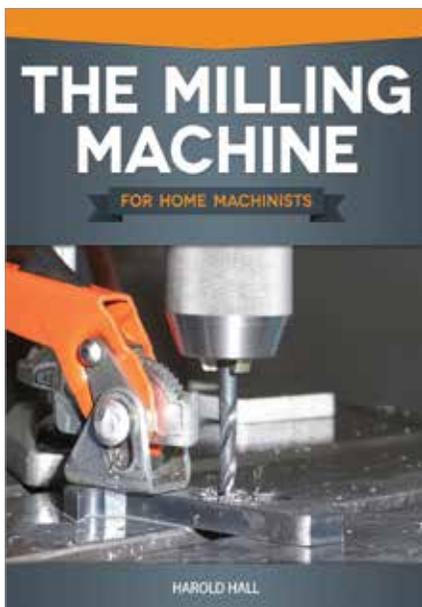
Metal Lathe for Home Machinists

By Harold Hall

- An introduction and project-based course to the lathe and lathe metalworking
- Contains 12 projects that start with basic tasks and progress into advanced skills
- Projects include making precision squares, distance gauges, tailstock die holders, and more – all heavily illustrated with drawings and photographs
- Great practice for both beginners and experienced lathe owners

Metal Lathe for Home Machinists is a project-based course that provides a complete introduction to the lathe and lathe metalworking. This book takes beginners through all the basic techniques needed to tackle a wide range of machining operations while advancing through 12 practice projects, from basic tasks to higher levels of difficulty. All of the projects are extensively illustrated and full working drawings accompany the text.

Paperback • 168 pages • 5.7" x 8.26"
978-1-56523-693-6 • LittleMachineShop.com #4736
Imprint: Fox Chapel Publishing
\$12.95 • **Available Now**



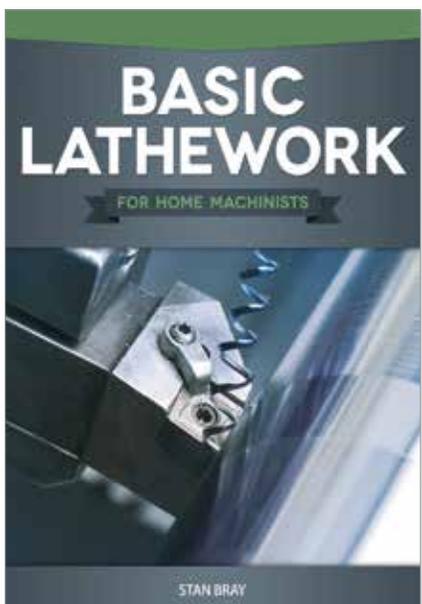
The Milling Machine for Home Machinists

By Harold Hall

- A detailed resource to choose, install, and operate a milling machine
- Provides expert advice to decide which accessories are essential in a task and which can wait
- Includes helpful photography, illustrations, diagrams, and explanations
- Learn correct ways to cut metal and maintain all your tools
- Build decision-making skills for accomplishing critical tasks

This book provides the detailed knowledge you need to successfully choose, install, and operate a milling machine in your home workshop. Heavily illustrated with color photographs and diagrams, it will help you understand which accessories are essential and which can be postponed until your activity demands it. *The Milling Machine* will arm you with decision-making skills on which method is best for any application and will show you the correct ways to cut metal and maintain all your milling tools.

Paperback • 120 pages • 5.7" x 8.26"
978-1-56523-769-8 • LittleMachineShop.com #4737
Imprint: Fox Chapel Publishing
\$14.99 • **Available Now**



Basic Lathe Work for Home Machinists

By Stan Bray

- A comprehensive guide to fully understanding the extensive capabilities of a lathe
- Chapters cover a wide range of topics, from choosing a machine and cutting tools to threading, taper turning, and parting off
- Provides expert advice on steadies, tool height, how to use cutting fluids, mandrels, and more
- Suitable for both beginners and more advanced operators seeking to improve their skills

Perfect for any home machinist with a new lathe, this comprehensive guide is designed to expand your enjoyment of this versatile machine and take full advantage of its extensive capabilities. Illustrated with hundreds of clear photographs and concise diagrams, it provides in-depth coverage of all aspects of tooling and machining operations. With expert advice on steadies, tool height, how to use cutting fluids, mandrels, and more, you'll be able to use your lathe to its fullest potential.

Paperback • 176 pages • 5.7" x 8.26"
978-1-56523-696-7 • LittleMachineShop.com #4735
Imprint: Fox Chapel Publishing
\$14.99 • **Available Now**

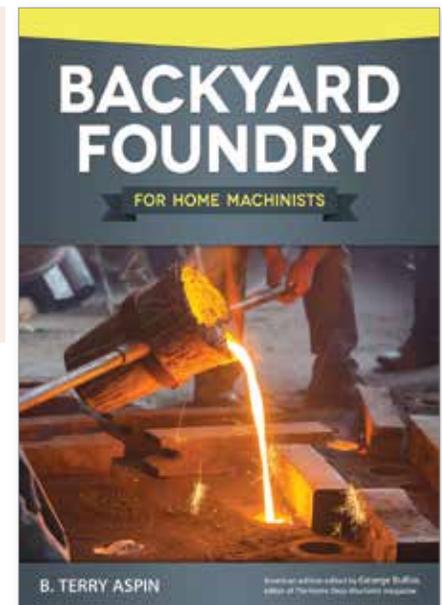
Backyard Foundry for Home Machinists

By B. Terry Aspin

- A go-to resource for anyone interested in casting work and foundry
- Provides useful information on basic background knowledge, materials, and various techniques
- Includes a design plan to build an outdoor solid-fuel furnace
- Contains helpful photography and illustrations for each stage and subject

Undertake casting with confidence! This informative resource is a go-to guide to learn everything you need to know to create your own home foundry for custom casting. Providing a wealth of useful information on materials and techniques, pattern-making, molding boxes, cores and core-boxes, and melting metals, each stage and subject is thoughtfully photographed and illustrated for a comprehensive look to get started in foundry.

Paperback • 96 pages • 5.7" x 8.26"
978-1-56523-865-7 • LittleMachineShop.com #5101
Imprint: Fox Chapel Publishing
\$12.99 • **Available Now**



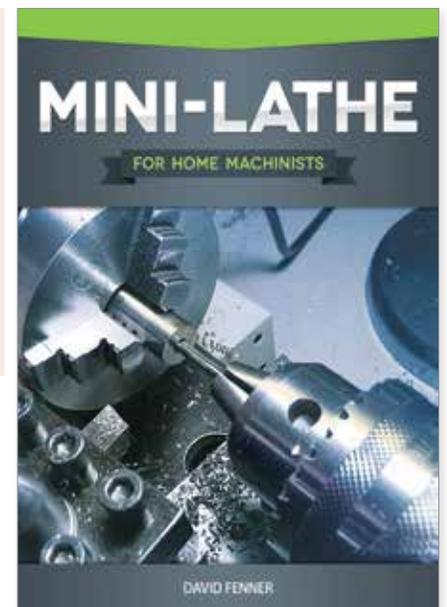
Mini-Lathe for Home Machinists

By David Fenner

- A complete course to fully understanding and using a mini-lathe for both beginner and experienced operators
- Includes expert guidance on safety, materials, setting up, tuning the machine, and performing tasks
- Provides easy-to-understand instructions and helpful illustrations for making shafts, bushings, spindles, part-off tools, and much more

Mini-Lathe for Home Machinists explains the different parts of the mini-lathe and shows how they can be used to complete different projects. Author David Fenner covers all the basics, from safety and materials, setting up, and tuning the machine to using accessories and performing a full range of essential tasks. Also included are detailed instructions and hundreds of illustrations for making useful components like shafts, bushings, spindles, part-off tools, DRO handwheels, and a radius turning attachment.

Paperback • 128 pages • 5.7" x 8.26"
978-1-56523-695-0 • LittleMachineShop.com #4734
Imprint: Fox Chapel Publishing
\$12.95 • **Available Now**



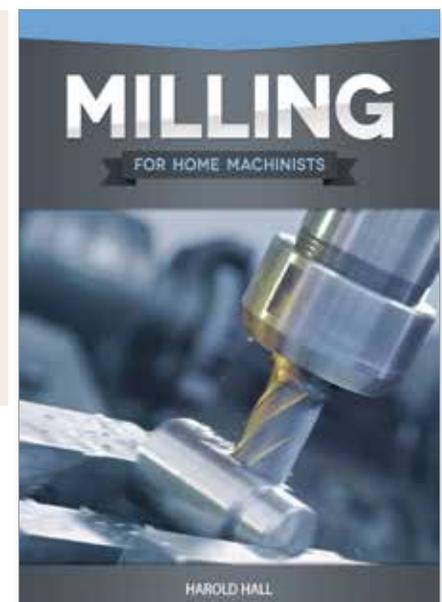
Milling for Home Machinists

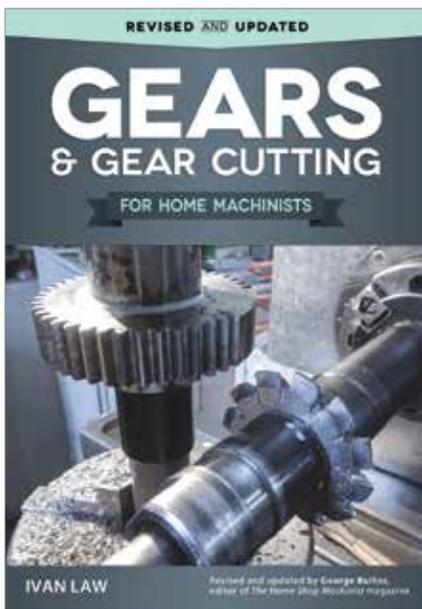
By Harold Hall

- A project-based course to gain skills and build expertise in milling
- Contains 8 projects, from making an angle plate and grinding tool holder to clamps, parallels, boring heads, and more
- Each project is extensively illustrated and photographed
- Tools made from previous projects are used in following tasks
- Some project items are not available commercially, making this book extremely valuable for workshop owners

Milling for Home Machinists is a project-based course that provides a complete introduction to milling and the use of the milling machine. It assumes no prior knowledge and works through the process of using a home shop mill from beginning to end. Four minor and four major milling projects that carefully progress in difficulty are provided to gain basic skills and build expertise to create a series of useful and increasingly complex tools. The eight projects are extensively illustrated, with full workshop drawings accompanying the text.

Paperback • 136 pages • 5.7" x 8.26"
978-1-56523-694-3 • LittleMachineShop.com #4738
Imprint: Fox Chapel Publishing
\$12.95 • **Available Now**





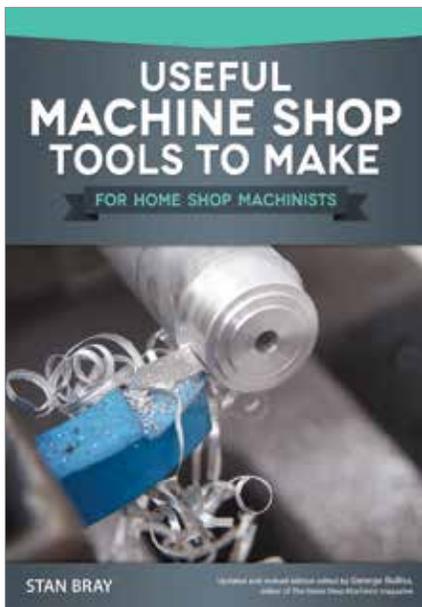
Gears and Gear Cutting for Home Machinists

By Ivan Law

- Practical, hands-on guide for anyone who wants to cut gears on a lathe or milling machine
- Learn the fundamentals needed to design gears and gear trains
- Takes the complex description of gears and how to machine them and makes it very understandable
- Uses plain, simple, and non-technical language and keeps the level of mathematics down to the simplest form
- Well-illustrated with concise technical diagrams and B&W photo

This practical, hands-on guide will assist anyone who wants to cut gears inexpensively on a lathe or milling machine. It teaches the fundamentals needed to design gears and gear trains using simple, non-technical language paired with helpful diagrams, charts, illustrations, and photography. With 12 insightful chapters on tooth forms and sizes, rack and pinion gears, bevel wheels, worm gears, dividing heads, and so much more, this comprehensive manual takes complicated concepts and makes them approachable and easy for anyone who simply enjoys model-making!

Paperback · 136 pages · 5.7" x 8.26"
978-1-56523-917-3 · LittleMachineShop.com #1165
Imprint: Fox Chapel Publishing
\$12.99 · **Available Now**



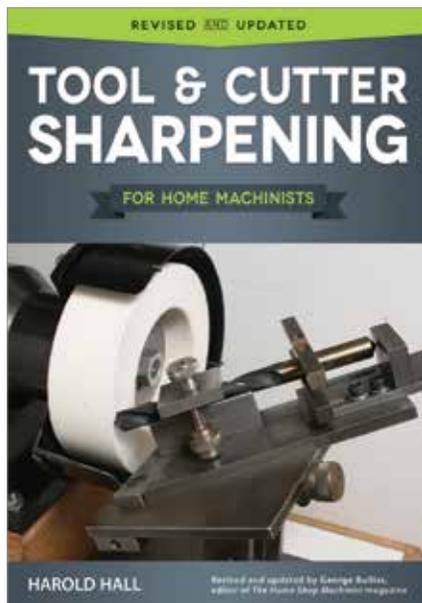
Useful Machine Shop Tools to Make for Home Shop Machinists

By Stan Bray

- A practical book for home machine shop enthusiasts to make their own tools using leftover scrap material
- Includes 15 complete plans to make tools that save time and money – each project takes no more than 3-4 hours
- Machinists can make their own filing machine, micrometer stand, chuck stops, cross drilling jigs, depth gauges, and more

Make 15 home machine shop tools for benchwork, the lathe, and milling operations. This practical book provides complete plans for making simple but useful additions to your workshop equipment. Each of these tools takes only a few hours to make, and requires no special materials. With fully-dimensioned drawings, detailed instructions, and reference photographs to accompany each project, you'll be able to produce a micrometer stand, finger plates, depth gauges, hand turning rest, and more, making your home workshop more versatile and efficient!

Paperback · 112 pages · 5.7" x 8.26"
978-1-56523-864-0 · LittleMachineShop.com #5102
Imprint: Fox Chapel Publishing
\$14.99 · **Available Now**



Tool & Cutter Sharpening for Home Machinists

By Harold Hall

- An instructional guide to properly and inexpensively sharpen workshop tools and equipment
- Shows how most sharpening tasks can be carried out using just an off-hand grinder and a few accessories
- Features simple methods to sharpen tools that work just as well as more sophisticated equipment
- Provides sharpening instructions for twist drills, lathe tools, end mills, milling cutters, hand tools, and woodworking tools

Follow the instructions in this book and working with blunt tools will be a thing of the past! Instructions are provided for sharpening the majority of workshop tools, including drills, lathe tools, end mills, milling cutters, hand tools, and woodworking tools. Each chapter contains black and white photography, clear explanations, and technical diagrams so you'll know all the effective and inexpensive ways to properly sharpen your everyday equipment.

Paperback · 136 pages · 5.7" x 8.26"
978-1-56523-912-8 · LittleMachineShop.com #5839
Imprint: Fox Chapel Publishing
\$12.99 · **Available Now**

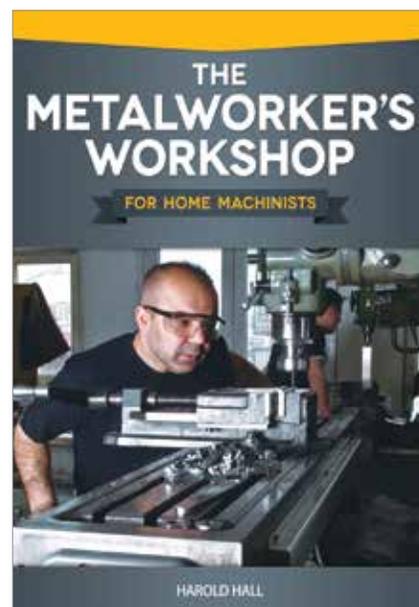
The Metalworker's Workshop for Home Machinists

By Harold Hall

- A complete guide to building, converting, and equipping a metalworker's workshop
- Provides expert advice on selecting tools and equipment for a wide range of tasks
- Examines crucial requirements of the workshop environment, from lighting and condensation control to health and safety factors
- Includes reviews of necessary machine tools, including lathes, drilling and milling machines, and more
- Includes over 200 photographs and informative drawings

This informative book covers all the aspects of setting up a fully-equipped metalworking workshop. It will benefit anyone who is building a workshop for the first time, or just wants to upgrade an existing operation. Explaining all the essential requirements of the workshop environment – planning, heating and lighting, and condensation, plus health and safety factors – it then describes the choice of various tools and equipment for differing tasks so the new workshop owner can avoid making unwise purchases.

Paperback · 152 pages · 5.7" x 8.26"
978-1-56523-697-4 · LittleMachineShop.com #4739
Imprint: Fox Chapel Publishing
\$14.99 · **Available Now**



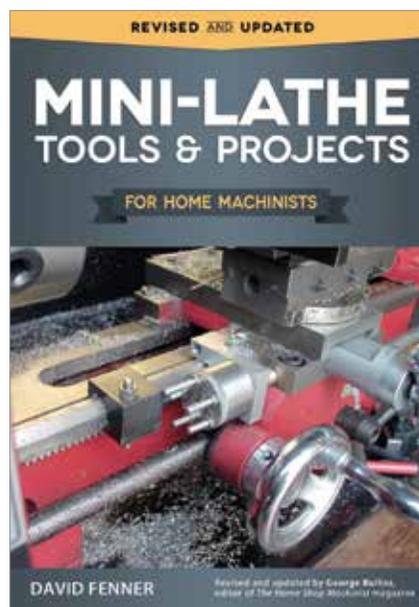
Mini-Lathe Tools & Projects for Home Machinists

By David Fenner

- A practical guide to tools and modifications that will extend the versatility of the mini-lathe
- Provides photography, helpful diagrams and illustrations, and descriptive explanations for each modification
- Includes 15 chapters that feature various tools, projects, and techniques, from improving radius turning attachments and saddle adjustments to taper turning and knurling

If you own a mini-lathe, this book is a must-have resource to fully understand everything this little machine can do! In continuation with its introductory manual, *Mini-Lathe for Home Machinists*, this book presents a series of projects to extend the versatility of small metal lathes. With detailed explanations, full-color photography, and insightful diagrams and illustrations, author David Fenner provides practical tools and modifications to help you get the most from your mini-lathe, from radius turning attachments to taper turning.

Paperback · 120 pages · 5.7" x 8.26"
978-1-56523-916-6 · LittleMachineShop.com #1166
Imprint: Fox Chapel Publishing
\$12.99 · **Available Now**



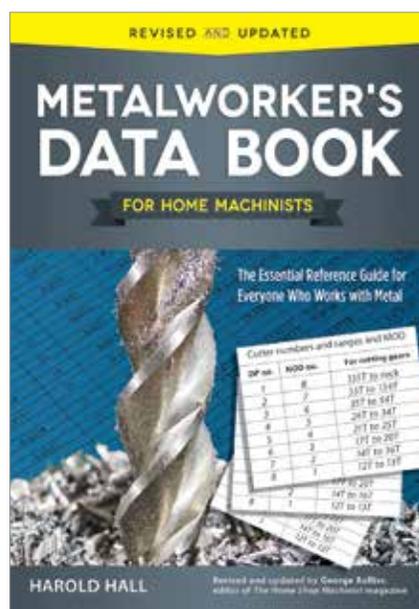
Metalworker's Data Book for Home Machinists

By Harold Hall

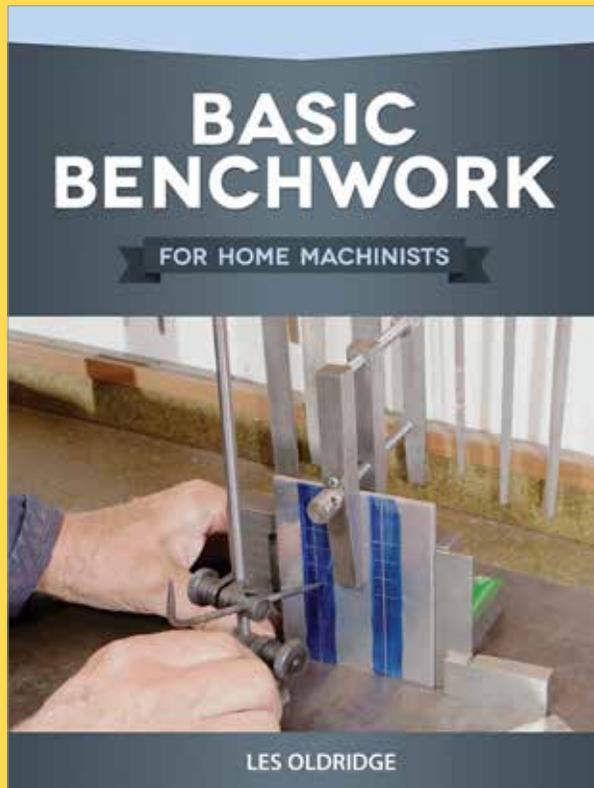
- Offers a wide range of required information for metal work and design
- Features 27 chapters filled with essential data, formulas, dimensions, tables, charts, specifications, symbols, and more
- Provides data otherwise available only from many different sources or more expensive publications
- Covers the latest metric thread forms

This comprehensive data book is jam-packed with reliable information, formulas, dimensions, and tables that are extremely useful in both the metalworking workshop and by those designing engineered items, tools, and machines. From drill sizes, turning tools, and thread data to screw cutting combinations, electrical components, and hardware dimensions, *Metalworker's Data Book* includes 27 chapters to will assist the metalworker both at the design stage of a project and during its manufacture in the workshop.

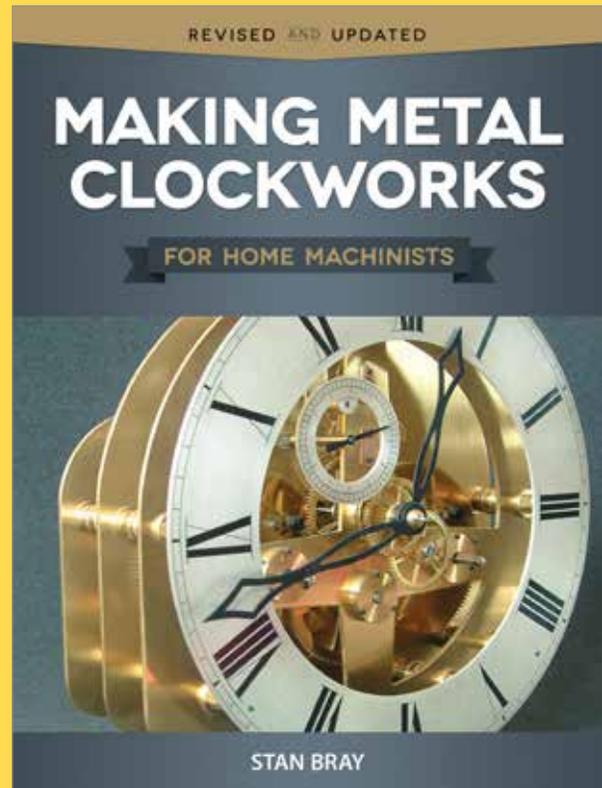
Paperback · 200 pages · 5.7" x 8.26"
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NEW for 2019



Available August 2019



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