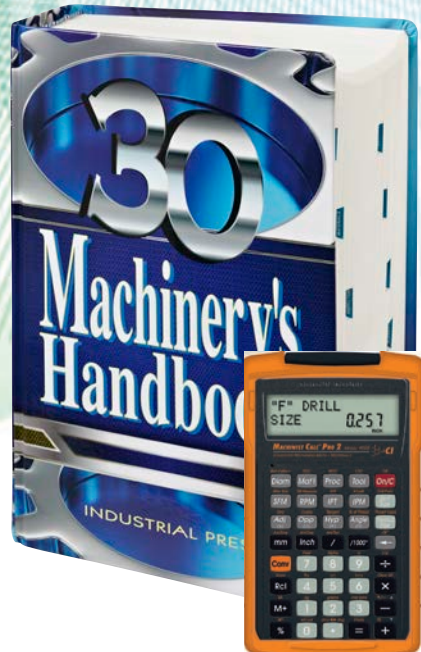
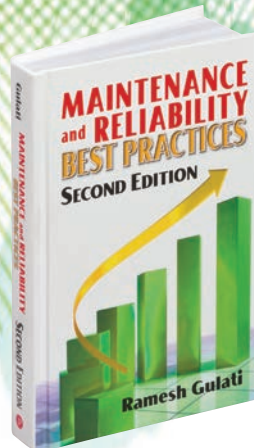
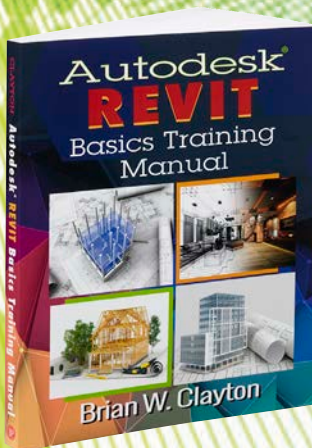
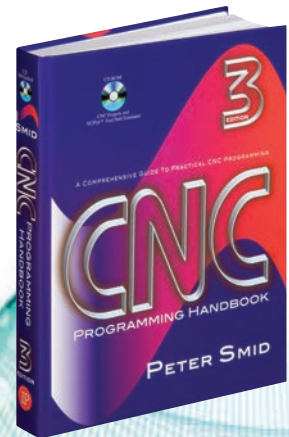
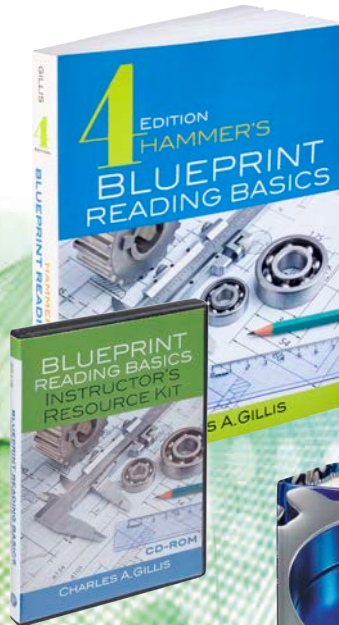
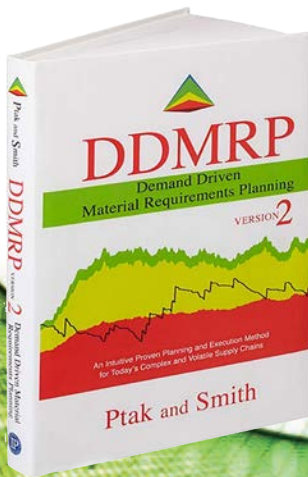




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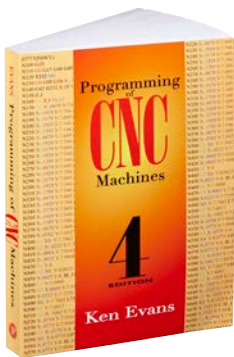
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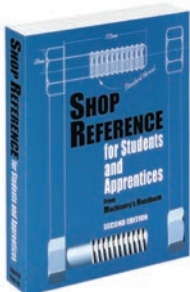
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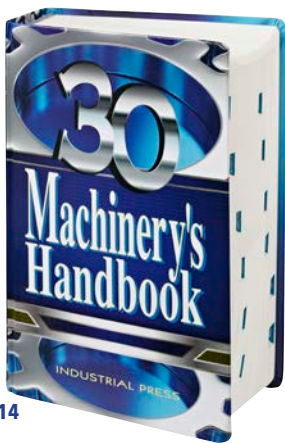
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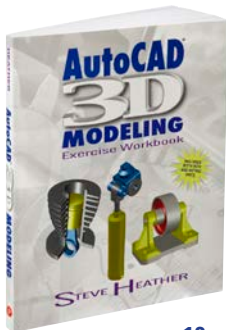
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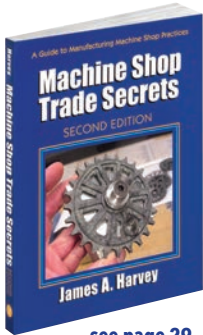
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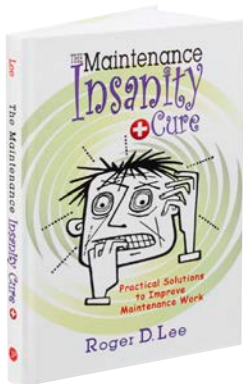


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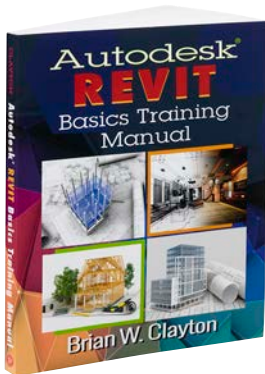


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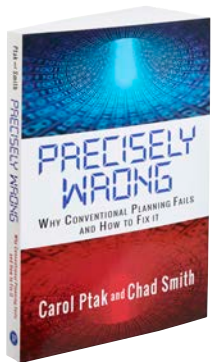
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MANUSCRIPT PROPOSALS

For more information about
submitting a proposal, including a
copy of our suggested guidelines,
please contact Judy Bass at:

jbass@industrialpress.com

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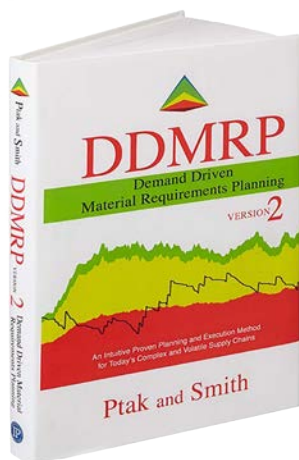
MESSAGE FROM THE EDITORIAL DIRECTOR

Industrial Press publishes essential resources for the machining community and related manufacturing industries, offering a diverse list of titles for students, practitioners, and seasoned professionals. From metalworking & welding, machine tooling, engineering math to maintenance & reliability, supply chain and inventory management, and construction & design, our works contain vital information on the latest technologies, tools, materials, and processes.

In 2018, we are focusing on helping readers pass critical exams in their fields. Getting certified can lead to many improvements: a higher position at work, an increase in salary, a way to round out a resume to apply for a different job, or even fulfillment of a lifelong dream. And with top-notch resources in the areas of plumbing, welding, piping, and maintenance & reliability, IP has references for a wide range of certifications. For those who may be past the certification stage, we have two long-awaited revisions with the *Modern Pipefitter's Manual* and *RCM3: Risk-Based Reliability Centered Maintenance*, as well as groundbreaking titles for those in the field of supply chain management.

As always, we hope you enjoy all these titles, and welcome any and all feedback and suggestions for future titles.

Judy Bass, Editorial Director
jbass@industrialpress.com



Demand Driven Material Requirements Planning (DDMRP) Version 2



Carol Ptak and Chad Smith

February 2018, 368 pp., ISBN: 978-0-8311-3628-4, \$69.95

Demand Driven Material Requirements Planning (DDMRP) Version 2 presents a proven method for supply chain planning and execution that effectively brings MRP into the modern era.

This new version boasts a completely new chapter introducing the Demand Driven Adaptive Enterprise Model, a new appendix discussing innovations of DDMRP, and revised graphics. THE definitive work on DDMRP, it is required courseware for all those taking the Certified Demand Driven Planner (CDDP) Program.

Carol Ptak, CFPIM, CIRM, is a partner with the Demand Driven Institute, and was most recently at Pacific Lutheran University as Visiting Professor and Distinguished Executive in Residence. Ms. Ptak is a past president of APICS, and has authored several books on MRP, ERP, Lean, and Theory of Constraints.

Chad Smith, CDDP, is a co-Founder and Partner at the Demand Driven Institute. Prior to the Demand Drive Institute, Mr. Smith served as the Managing Partner of Constraints Management Group (CMG) for eighteen years. He has co-authored and contributed to several books on MRP, Theory of Constraints, and the Demand Driven methodology.

TABLE OF CONTENTS: Perspective: • Planning in the New Normal • The Importance of Flow • Material Requirements Planning (MRP) in the New Normal • Unlocking a Solution – The Power of Decoupling • Becoming Demand Driven • Supply Order Generation and Execution for the New Normal • Strategic Inventory Positioning • Strategic Buffers • Buffer Adjustments • Demand Driven Planning • Demand Driven Execution • DDMRP Impacts to the Operational Environment • DDMRP Metrics and Analytics • The Demand Driven Adaptive Enterprise Model • Implications for Information Technology • An MRP Example • Simulating DDMRP Buffers • Applying DDMRP to the Apparel Retail Environment • Demand Driven MRP Dictionary • The Innovations of DDMRP.

The Demand Driven Adaptive Enterprise



Carol Ptak and Chad Smith

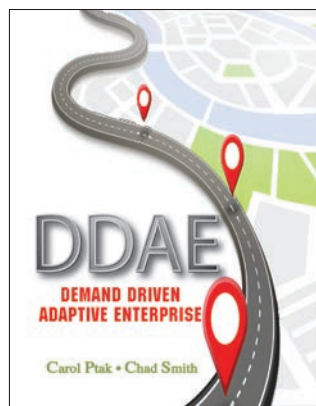
December 2018, 175pp., ISBN: 978-0-8311-3635-2, \$49.95

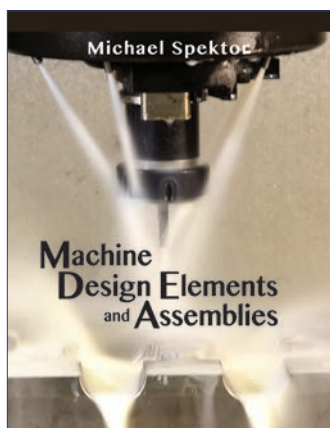
Businesses are dying as they fail to adapt to an increasingly more complex and volatile set of circumstances. Management is starving for relevant information, much of which is distorted by antiquated models, methods, rules, and tools held over from decades past. What will it take to change this?

This book reveals a new framework that enables a flow-based system of management to drive ROI performance and adaptation for sustainability and improvement in the longer range. The new framework is called the Demand Driven Adaptive Enterprise (DDAE) Model.

The DDAE model allows enterprises to adapt to complex environments. It utilizes a system of innovation and feedback between three primary components: A Demand Driven Operating Model; Demand Driven S&OP; and Adaptive S&OP. DDAE focuses on the flow of information and materials to drive return.

TABLE OF CONTENTS: Flow and Return on Investment • The Search for More Relevant Information • An Introduction to DDAE Model • The Demand Driven Operating Model • Demand Driven Sales & Operations Planning • Adaptive Sales & Operations Planning • Becoming a Demand Driven Adaptive Enterprise.





Machine Design Elements and Assemblies

Michael Spektor

May 2018, 500 pp., ISBN: 978-0-8311-3619-2, \$89.95

This is the first text available to students for the course Machine Design (also called Machine Elements) that truly prepares them to meet industry challenges by accelerating their introduction to solving real-life engineering problems. *Machine Design Elements and Assemblies* methodically describes the material in a way that broadens and deepens the reader's engineering knowledge related to the design of mechanical systems in a much more concise, less expensive package than what has been available until now.

Existing textbooks for this course focus mostly on verifying strength calculations of single components of machines in isolation, but do not frame them in the context of broader assemblies. These texts likewise give very little attention to assemblies, and to the order in which the various machine elements are presented.

The sequence used in this textbook allows readers to address not only the design peculiarities of a single element, but also the design considerations associated with the functionality of a full assembly. Each chapter involves an element that supports the previous chapter, creating a simply assembly, and more and more complex assemblies as the student delves further into the book.

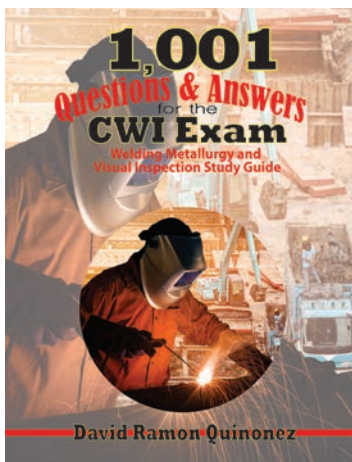
It's important to note that this text presents the verifying calculations for each of the existing types of machine elements for general applications as well as the design calculations of these elements that should comply with the engineering requirements associated with the development of new assemblies. This structure resembles the work of actual engineers in practice.

Examples and problems solved in each chapter (and additional ones available on an affiliated website) support this structure as well, reflecting typical real-life projects in industry.

An affiliated website boasts hundreds of additional practice problems and answers for students trying to perfect their skills and be able to port their knowledge to practical industrial applications.

Michael Spektor is a retired professor from Oregon Institute of Technology (OIT) with more than 50 years of experience in Mechanical Engineering in both industry and academia, in the US and Europe. He launched a Bachelor's degree completion program in Manufacturing Engineering Technology at Boeing, and then introduced a Master's program a few years later. He served as Director of this program, at the same time as teaching undergraduate and graduate courses in Mechanical Engineering, including Machine Elements.

TABLE OF CONTENTS: Chapter 1: Mechanical Engineering • Chapter 2: Bearings • Chapter 3: Shafts and Axles • Chapter 4: Belt Drives • Chapter 5: Gearing • Chapter 6: Bevel Gears • Chapter 7: Worm-Gear Transmission • Chapter 8: Power Screw Drive • Chapter 9: Threaded Joints • Chapter 10: Riveted Joints • Chapter 11: Welded Joints • Chapter 12: Springs.



Even more questions and answers are featured on the book's affiliated website, along with dynamic welding tables, and information on different testing (i.e., ultrasonic, liquid penetrant, etc.) for Certified Welding Inspector candidates.

David Ramon Quinonez

is a Nondestructive Testing and Visual Inspection Advocate. He has met all the educational hours and on the job training hours for qualification and certification as a Level II in the five major NDT Disciplines: Magnetic Particle (MT), Penetrant (PT), Eddy Current (ET), Radiographic (RT), and Ultrasonic (UT) Testing. He was previously certified by the American Society of Nondestructive Testing (ASNT) for Level III MT, PT, and by the American Welding Society (AWS) as a Certified Welding Inspector (CWI).

1,001 Q&A for the CWI Exam Welding Metallurgy and Visual Inspection Study Guide

David Ramon Quinonez

May 2018, 325 pp., ISBN: 978-0-8311-3629-1, \$49.95



Many candidates mistakenly assume their field experience is enough to obtain certification, only to end up frustrated when they fail to pass their exam. Certification exams are intentionally comprehensive to ensure the welding industry has among its ranks the high-quality personnel needed to handle complex roles. The process requires almost everyone to prepare to some extent – even those with years of experience.

While there are several books on the CWI exam, there are no publications dedicated to helping CWI candidates pass the exam. The lack of sample exams covering all the major welding processes and inspection material frustrated the author, so David Quinonez began creating his own. This incredible resource was written for that express purpose.

A comprehensive collection of preparatory exam questions and answers for welders, inspectors, students, or anyone interested in the welding metallurgical field, *1,001 Q&A for the CWI Exam* boasts appendices that include tables, formulas, lists of organizations and major corporations employing welders and inspectors. There's also a corresponding website where readers can find additional questions and answers, metallurgical tables, and information on ultrasonic testing.

TABLE OF CONTENTS: Chapter 1: Oxyacetylene Welding & Cutting (OAW & OAC) • Chapter 2: Shielded Metal Arc Welding (SMAW) • Chapter 3: Gas Metal Arc Welding • Chapter 4: Gas Tungsten Arc Welding • Chapter 5: Flux Cored Arc Welding • Chapter 6: Survey of Other Welding & Cutting Methods • Chapter 7: Brazing & Soldering • Chapter 8: Controlling Distortion & Heat Treating • Chapter 9: Welding Symbols & Joint Preparation • Chapter 10: Welding Metallurgy • Chapter 11: Electrical Safety & Power Supplies • Chapter 12: Welding Positions • Chapter 13: Inspection & Discontinuities • Chapter 14: Qualification & Certification Appendix A: Directory – Associations & Organizations Directory – Businesses & Corporations Directory – Labor Unions Specification Material Resources • Appendix B: Acronyms/Abbreviations AWS Letter Designations for Welding & Allied Processes Elements, Symbols, & Melting Temperatures • Appendix C: Tables/Formulas Conversion Factors.



Maintenance and Reliability Certification Exam Guide

Dr. Nathan C. Wright,

D.M., MBA, CMRP, PMP, MLT1

October 2018, 500 pp., ISBN: 978-0-8311-3623-9, \$59.95



Getting certified in the field of maintenance and reliability is more than simply passing a test. This must-have new guide provides exam preparation as well as practical, on-the-job application of the skills needed by all M&R professionals.

In the fields of maintenance & reliability, there are a number of certifications that "M&R" professionals may take to help further their careers, whether it be in the form of a promotion, a change of job, more money, or simply a title to add to their credentials. The exams for these tests assess the candidates' skills and knowledge in areas such as work management, equipment reliability, leadership and organization, manufacturing process reliability, and business management, as well as their ability to adhere to industry standards (both ANSI and ISO).

Until now, there hasn't been one single volume for maintenance and reliability certification candidates to use as a study guide for these exams. The *Maintenance and Reliability Certification Exam Guide* fills the great need for a singular resource by including specifics about the different tests, how to study for each, information on where to focus review efforts, hundreds of sample questions, vital facts about re-certification, as well as practical tips for maintenance and reliability professionals to take back with them to use on the job. Related graphs, tables, charts, and illustrations round out this indispensable resource for all maintenance and reliability professionals seeking certification.

Dr. Nathan C. Wright is a no-nonsense Senior Manager with more than 35 years of successfully transforming troubled companies or divisions in the heavy equipment, manufacturing, mining, food and beverage, and defense industries. Wright offers a history of outstanding success in quickly bringing organizations to greater productivity, revenues, and win-win customer relations. He holds a Doctorate of Management, MBA, Licensed PMP, CMRP, & MTLI, and is known and respected for leadership in three primary areas: General Management, Operations Management, and Maintenance/Reliability Engineering Management.

TABLE OF CONTENTS: Chapter 1: Maintenance & Reliability Organizations • Chapter 2: Becoming Certified in Maintenance & Reliability • Chapter 3: Exam Preparation • Chapter 4: Bodies of Knowledge • Chapter 5: Leadership • Chapter 6: The Business of Maintenance • Chapter 7: Work Management • Chapter 8: Industry Specific Processes • Chapter 9: Equipment Condition Reliability • Chapter 10: Re-certification • Chapter 11: Summary.



RCM3: Risk-Based Reliability Centered Maintenance

Marius Basson with the Aladon Network

September 2018, 500 pp., ISBN: 978-0-8311-3632-1, \$84.95

The long-awaited revision of the RCM2 bestselling resource, by John Moubray, with a modern focus of risk-based processes and new ISO standards.

The popular Reliability Centered Maintenance (RCM2) methodology has been around since the late '90s, but it was what professionals call a consequence-based approach. This work represents a revision to that bestselling RCM2 title, with more modern thinking, an emphasis on a risk-based methodology, and alignment with International ISO standards (55000 and 31000). The result is a more holistic, integrated, and rigorous way for developing asset care and risk-mitigating strategies for physical assets.

Since the release of the ISO 310004 and ISO 550005 Standards for Risk Management and Asset Management respectively, Aladon developed RCM3™, a risk-based RCM methodology that places managing the risk and reliability of physical assets mainstream with other business management systems in an organization. RCM3 fully complies and exceeds the requirements of the SAE Standard and fully aligns with the frameworks of the ISO Standards.

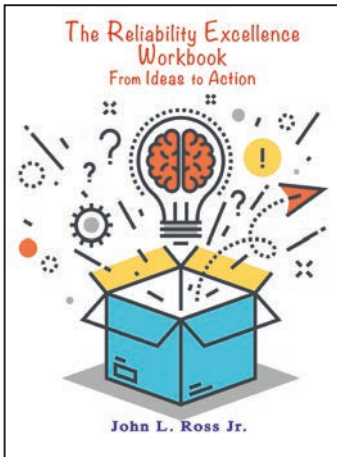
The new risk-based focus of RCM3 (proactive management of intolerable physical and economic risks) features the following principles:

- Updated approach for testing and handling of protective devices
- Based on the requirements of the fourth industrial revolution (Industry 4.0) and its challenges
- Covers new expectations and new maintenance techniques for fourth-generation maintenance
- Places reliability & risk management mainstream with organizational objectives and management systems
- Aligned and integrated with International ISO Standards for Physical Asset Management and Risk Management (ISO 55000 & ISO 31000)
- Now part of an integrated asset strategy for full life-cycle management of physical assets

Marius Basson is the President of Aladon and The Aladon Network, a global community of industry professionals delivering reliability-based training and consulting services. He is an experienced engineering professional with more than 25 years' experience in leading and implementing business improvement and reliability initiatives. He specialized in the application of risk and reliability improvement programs for many years and adopted a methodical way of thinking.

Aladon is a global network of asset reliability professionals, certified in the delivery of a team-based approach for improving the risk and reliability of all key assets in an organization. They have specialized in managing risk and reliability of physical assets and the implementation of asset management programs for more than 3 decades.

TABLE OF CONTENTS: Chapter 1: RCM3 Background • Chapter 2: Introduction to RCM • Chapter 3: Operating Context • Chapter 4: Functions • Chapter 5: Failed States and FMEA • Chapter 6: Failure Consequence and Risk • Chapter 7: Proactive Tasks • Chapter 8: Default Actions • Chapter 9: the RCM Decision Diagram • Chapter 10: Implementing RCM Recommendations • Chapter 11: Applying the RCM Process • Chapter 12: What RCM Achieves.



The Reliability Excellence Workbook From Ideas to Action

John L. Ross, Jr.

September 2018, 300 pp., ISBN: 978-0-8311-3634-5, \$49.95



Reading this book is like having a consultant sitting across the table, helping to drive your organization along a continuum of reliability improvement. The author introduces a concept, provides space for readers to record their experiences and observations, offers anecdotal examples and approaches, and drives readers to potential solutions.

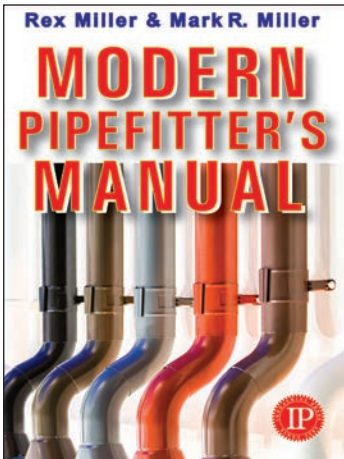
This book helps maintenance and reliability professionals clearly understand their current situation, plan a route to improvement and high performance, and enables them to articulate the path forward, including a compelling case for change. Every chapter ends with a suggested segment of an overarching approach to the preservation of plant or facility equipment. The fundamental elements of high performing reliability organizations are explored, discussed, and debated. Industry standards are discussed and explained. It covers reliability (and other 4-letter words) in the context of creating a master strategy of continuous improvement.

Much of the information from this work has been gleaned from the author's extensive consulting experience. With the help of the forms and discussions in this workbook, readers will create a working document they can continually use to grow and change their businesses. Each section concludes with a synopsis of what was learned about a particular situation, the reader's own vision, and how to create a cohesive strategy for moving forward.

A truly interactive workbook – like MadLibs™ for maintenance and reliability professionals.

TABLE OF CONTENTS: Chapter 1: Our Inherent Desire to Grow and Change • Chapter 2: Change and the Resistance to It • Chapter 3: Business Management • Chapter 4: Manufacturing Process Reliability • Chapter 5: Equipment Reliability • Chapter 6: Leadership and Organization • Chapter 7: Work Management.

John L. Ross, Jr.,
Ph.D., CMRP, is the President of the international reliability consulting company, Maintenance Innovators, Inc., and the sole proprietor of State Line Group, LLC. He proudly serves as a Senior Consultant with the widely renowned Marshall Institute. The Marshall Institute is the global thought leader in equipment reliability.



Modern Pipefitter's Manual

Rex Miller and Mark R. Miller

August 2018, 450 pp., ISBN: 978-0-8311-3620-8, \$49.95



A pipefitter is a tradesperson who installs, assembles, fabricates, maintains, and repairs mechanical piping systems. Piping can consist of copper, PVC, CPVC, polyethylene, and galvanized pipe. The pipefitting industry is expected to grow more than 20% in the next 5 years because of the construction of new buildings and the need for new septic and mechanical systems. The demand for qualified, well-trained, knowledgeable workers has never been greater.

The Pipefitter's Handbook has been THE indispensable reference for pipefitters of all levels for more than 50 years. With this robust revision, authors Rex and Mark Miller are updating this work for the entire pipefitting trade. All state exams are taken into consideration. Tools and instruments are included to familiarize the individual with the labor-saving devices and their correct utilization. This is the perfect resource for all those entering the trade.

Modern Pipefitter's Manual brings the subject matter into the 21st century, with a larger trim size and completely new interior. The content is upgraded to reflect modern materials, standards, and requirements. It incorporates much more comprehensive information on plastic pipes and tubing, which was NOT included in the original text.

Authors Miller and Miller include sample true/false and multiple choice questions throughout the text - the type those studying for the certification will find on their official exams.

Rex Miller, professor Emeritus of Industrial Technology at State University of New York, College at Buffalo, has taught technical courses on all levels from high school through graduate school for over 40 years. Dr. Miller is author or co-author of over 100 textbooks.

Mark R. Miller is a Professor and Coordinator of Industrial Technology at the University of Texas at Tyler. Dr. Miller is the author or co-author of more than 40 textbooks for trade and technical programs.

TABLE OF CONTENTS: Chapter 1: Introduction to Pipefitting • Chapter 2: Power and Industrial Pipe Bending • Chapter 3: Pipe Fabrications • Chapter 4: Soldering, Brazing, Plastic Pipe Welding & Chemical Fastening • Chapter 5: Offset Connections, Screwed & Flanged Fittings • Chapter 6: Reference Data—pipes, valves, copper tubing • Chapter 7: Metals Used in Pipes (Melting Temperatures) • Chapter 8: Pipe Fitting and Architectural Design • Chapter 9: The Internet as an Information Source for Latest in Pipes, Pipe processes • Chapter 10: Plastic piping & tubing: CPVC, PVC, ABS, & PEX • Glossary / Pipefitter's Dictionary Math tables, conversions tables, areas & volumes, and formulas; Pipefitter's career opportunities.



Blueprint Reading Basics Instructor's Resource Kit



Charles Gillis

February 2018, CD-ROM, ISBN: 978-0-8311-9434-5, \$249.00

Blueprint reading is the universal form of communication in manufacturing plants and machine shops. Machine operators, quality control inspectors, NC programmers, shop supervisors, metalworking manufacturing personnel, engineers, engineering managers, and other manufacturing professionals must all read prints.

Blueprints document the requirements of manufactured parts. They transform ideas into products and communicate information among all parties involved, from manufacturer to consumer. The entire manufacturing cycle revolves around prints. Improvements are made, and prints are altered accordingly.

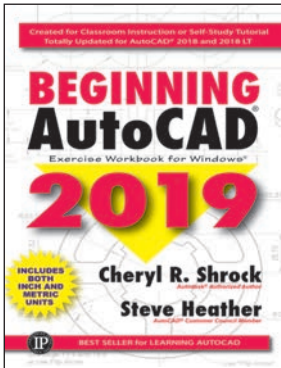
The newly released, highly anticipated revision, *Hammer's Blueprint Reading Basics* and the *Instructor's Resource Kit* work together to produce a program of true competence in print reading for all students in the manufacturing trades. Upon completion of the program, readers will have gained a new set of skills and behaviors for reading engineering drawings.

The companion to the main text, the *Instructor's Resource Kit* adds tremendous value to an one teaching a blueprint course. It includes:

- More than 600 PowerPoint presentations for using the textbook material in a classroom setting, intended for use with the main book. The order of the presentations mirrors that of the text content and is customizable, enabling the instructor to present the course material to his or her students in a meaningful, visually interesting manner.
- Blueprint Reading Course recommended Syllabus: A recommended course syllabus also, which can be used as-is or customized to suit the instructor's needs.
- Individual PDF files for review questions & solutions.
- More than 150 individual PDF files for worksheet problems and solutions.

Hammer's Blueprint Reading Basics + the Blueprint Reading Basics Instructor's Resource Kit = The PERFECT blueprint reading training package for students and practitioners in all trades involving manufacturing, engineering, and machining.

Charles Gillis has over 20 years of machine design experience. He is a mechanical design engineer for the Proctor & Gamble Company. For the last 6 years, he has taught WPI's Geometric Dimensioning & Tolerancing courses. He is also a contributing author to *Machine Designer's Reference*, published by Industrial Press.



Beginning AutoCAD® 2019 Exercise Workbook

Cheryl R. Shrock and Steve Heather

May 2018, 600pp., ISBN: 978-0-8311-3626-0, \$49.95



The world-renowned Workbook that has been teaching AutoCAD users for more than two decades is more engaging and relevant than ever!

For students new to the world of AutoCAD®, as well as designers, architects, and manufacturers honing longtime skills, there is simply no better resource on the market than the *Beginning AutoCAD® 2019 Exercise Workbook*. For the first time, this top selling Workbook will include a dynamic, new feature called “CAD Tips” which will be interspersed throughout the lessons to further engage readers as well as provide value-added insider information from a longtime expert in the field. All of the game-changing features of AutoCAD are highlighted throughout this new edition, including the phenomenal feature of SHX font importation during document upload, allowing for fully-editable text on PDF documents as well as both metric and inch measurements side-by-side on all exercises.



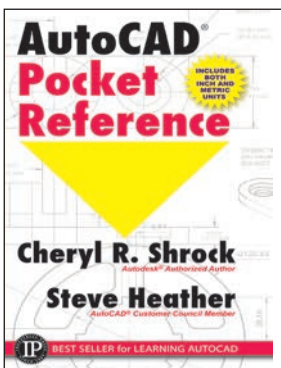
NEW and IMPROVED FEATURES

- “Drawing Compare” and “Shared Views,” making working with clients and 3rd parties infinitely easier.
- “CAD Tips” scattered throughout the book, providing shortcuts and suggestions from our expert author.
- New and improved graphics throughout, elevating the user experience from a visual perspective

AutoCAD TITLES NOW INCLUDE METRIC MEASUREMENTS

Cheryl Shrock is a retired Professor and Chairperson of Computer Aided Design at Orange Coast College in California. The AutoCAD Workbooks are the result of both her teaching skills and her industry experience. She is an Autodesk® registered author.

Steve Heather is a former Lecturer of Mechanical Engineering and Computer Aided Design in England, UK. For the past 8 years, he has been a Beta Tester for Autodesk® testing the latest AutoCAD® software. He is the co-author of the bestselling series of *Beginning and Advanced AutoCAD® Exercise Workbooks*. Previous to teaching, and for more than 30 years, Steve worked as a Precision Engineer in the aerospace and defense industries.



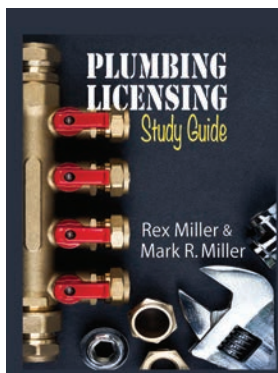
AutoCAD® Pocket Reference, 8th Edition

By Cheryl Shrock and Steve Heather

July 2018, 375 pp., ISBN: 978-0-8311-3627-7, \$29.95



Everyone needs a refresher, right? The 8th edition of the *AutoCAD® Pocket Reference* provides easy access to everyday information needed by AutoCAD users, including concepts, how-to, and fundamental commands. The pictures, explanations, and index are unparalleled by other references, as are the price and size. And now, with the inclusion of special “CAD-Tips” throughout, this is the perfect “cheat sheet” reference.



Rex Miller, Professor Emeritus of Industrial Technology at State University of New York, College at Buffalo, has taught technical courses on all levels for over 40 years. Dr. Miller is author or co-author of over 100 textbooks.

Mark R. Miller is a Professor and Coordinator of Industrial Technology at the University of Texas at Tyler, and is the author or co-author of more than 40 textbooks for trade and technical programs.

Plumbing Licensing Study Guide

Rex Miller and Mark R. Miller

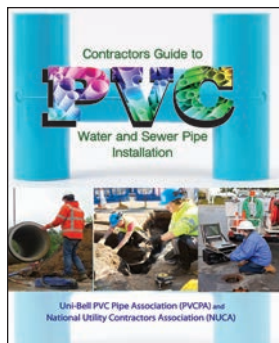
April 2018, 300 pp., ISBN: 978-0-8311-3625-3, \$49.95



This book is designed for use as both a text and study guide for those students taking the licensing test in plumbing. The authors include valuable tips and illustrations of the various tools and equipment used in the trade.

Suggestions for exam preparation and test-taking are discussed, along with tips for instructors preparing lesson plans and curricula for teaching plumbing certification. An affiliated website will have additional test questions, videos, and color photographs of the more eye-catching scenarios in the book.

TABLE OF CONTENTS: Tools • Safe Plumbing Terms • Plumbing Codes and Standards • Bathtubs • Drains, Vents, and Vent Pipings • Fittings • Cast iron Pipe and Fittings • Pumps • Toilets and Bidets • Urinals • Lavatories and Sinks • Showers • Tubing, Plastic Pipe, Galvanized Pipe and their Fittings • Septic Tanks and Rural Water Systems • City Sewers and Sewage • City Drinking Water Systems • Abbreviations and Symbols • Metals Encountered in Plumbing.



Uni-Bell PVC Pipe Association (PVCPA)

represents manufacturers of PVC pipe for water, sewer, irrigation and storm water applications.

National Utility Contractors Association (NUCA)

was founded in 1964, and is the leading trade association working solely for the utility construction and excavation industry in the USA.

Contractor's Guide to PVC Water and Sewer Pipe Installation

Uni-Bell PVC Pipe Association (PVCPA) and NUCA

August 2018, 175 pp., ISBN: 978-0-8311-3633-8, \$34.95



There is a need to better educate contractors on how to properly install PVC pipe to ensure system longevity and performance. In addition, having more qualified installers in all states will help reduce legal claims caused by poor installation.

This is the most concise and authoritative work available for the installation of PVC water and sewer pipe and fittings. It contains new information, such as cutting PVC pipe. It comes complete with practical charts, graphs, and pictures that will enable users to be more effective at installing PVC pipes of all kinds.

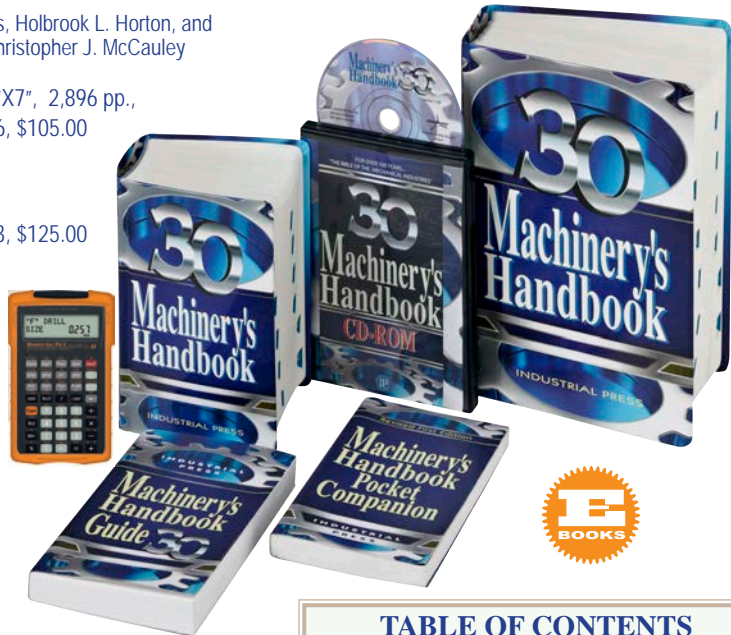
TABLE OF CONTENTS: Introduction • Receiving and Handling • The Trench • Installation and Assembly • Fittings • Thrust Restraint • Service Taps • Service Connections • Sewer Laterals • Backfilling and Tamping • Testing of Sewers • Disinfecting • Special Installations (PVC Pressure and Non-Pressure Pipe) • Useful Information • Additional Resources.

Machinery's Handbook, 30th Edition

Erik Oberg, Franklin D. Jones, Holbrook L. Horton, and
Henry H. Ryffel, Editor Christopher J. McCauley

Toolbox: thumb indexed, 4.6"X7", 2,896 pp.,
ISBN: 978-0-8311-3091-6, \$105.00

Large Print: thumb indexed,
7"X10", 2,896 pp.,
ISBN: 978-0-8311-3092-3, \$125.00



For more than 100 years, *Machinery's Handbook* has been the most popular reference work in metalworking, design, engineering and manufacturing facilities, and technical schools and colleges throughout the world. It is universally acknowledged as an extraordinarily authoritative, comprehensive, and practical tool, providing its users with the most fundamental and essential aspects of sophisticated manufacturing practice. The 30th edition of the "bible of the metalworking industries" contains major revisions of existing content, as well as new material on a variety of topics. It is the essential reference for mechanical, manufacturing, and industrial engineers, designers, draftsmen, toolmakers, machinists, engineering and technology students, and the serious home hobbyist.

TABLE OF CONTENTS

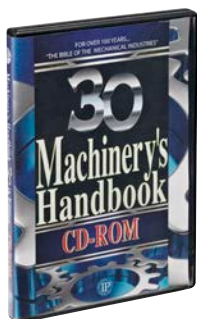
- Mathematics
- Mechanics and Strength of Materials
- Properties, Treatment, and Testing of Materials
- Dimensioning, Gaging, and Measuring
- Tooling and Toolmaking
- Machining Operations
- Manufacturing Processes
- Fasteners
- Threads and Threading
- Gears, Splines, and Cams
- Machine Elements
- Measuring Units
- Index

New to this edition:

- An expanded metrology section, including v-blocks and micrometer, vernier and dial calipers; a new fluid power section covering pneumatic, hydraulic, and vacuum theory and applications; powder metallurgy, including additive manufacturing; tap drill sizes for Unified threads and reaming allowance for drilling; standard mesh and grit sizes; and assembly with dowel pins.
- Recently added topics are micromachining, expanded material on calculation of hole coordinates, an introduction to metrology, further contributions to the sheet metal and presses section, shaft alignment, taps and tapping, helical coil screw thread inserts, distinguishing between bolts and screws, miniature screws, metric screw threads, calculating thread dimensions, keys and keyways, solid geometry, statistics, and fluid mechanics.
- Numerous major sections have been extensively reworked and renovated throughout, including mathematics, mechanics and strength of materials, properties of materials, dimensioning, gaging and measuring, machining operations, manufacturing process, fasteners, threads and threading, and machine elements. Standards have been updated.

Machinery's Handbook, 30th Edition, CD-ROM

CD-ROM: 4,024 pp., ISBN: 978-0-8311-3093-0, \$105.00
 Toolbox/CD-ROM Combo: ISBN: 978-0-8311-3096-1, \$180.00
 Large Print/CD-ROM Combo: ISBN: 978-0-8311-3097-8, \$199.95
 CD-ROM Upgrade: ISBN: 978-0-8311-3098-5, \$49.95



The *Machinery's Handbook, 30th Edition*, CD-ROM contains the complete contents of the print edition, presented in Adobe PDF format. This format allows viewing and printing of pages that are identical to those of the printed book, permits rapid searching of the entire *Handbook*, and includes the ability to magnify the view of any page. Navigation aids in the form of thousands of clickable bookmarks, page cross references, and index entries take you quickly to any page referenced. In addition to the full print edition, the CD-ROM includes over 1,000 additional pages of data, mostly material that was published in previous print editions but subsequently removed due to space restrictions from various sources. Includes additional indexes of the entire content, expanded tables of popular content, original material and many topics from previous print editions, and the entire *Machinery's Handbook Guide*.

Throughout the *Machinery's Handbook Guide* you will find invaluable information on how to make full use of the *Handbook* to solve problems encountered on the job. In addition to offering a wealth of time-saving data that can help in almost any situation, it includes 500 examples and questions (with answers) specifically selected for engineers and apprentices. This is a print edition only. The *Guide* is also found on the *Machinery's Handbook* CD-ROM.

System Requirements for CD-ROM and Upgrade:

Microsoft Windows operating systems, including XP, Vista, and Windows 7, 8, and 10, but DOES NOT WORK with Windows RT. Installs on 32- or 64-bit Windows. CD-ROM drive. Requires Adobe Acrobat or Reader. Internet connection needed for activation.

UPGRADE CD-ROM installation requires a previously purchased *Machinery's Handbook* CD-ROM edition registration number. (25th, 26th, 27th, 28th, or 29th)

MACHINERY'S HANDBOOK GUIDE, The *Guide* on the *MHB 30th* CD-ROM in PDF format is tightly integrated with the *Handbook*. Hundreds of cross references let you jump from topics in the *Guide* to related areas in the *Handbook*.

Machinery's Handbook Guide, 30th Edition



John M. Amiss, Franklin D. Jones, and Henry H. Ryffel, Editor Christopher J. McCauley
 296 pp., ISBN: 978-0-8311-3094-7, \$19.95

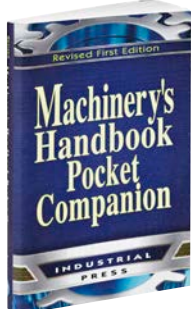
Throughout the *Machinery's Handbook Guide* you will find invaluable information on how to make full use of the *Handbook* to solve problems encountered on the job. In addition to offering a wealth of time-saving data that can help in almost any situation, it includes 500 examples and questions (with answers) specifically selected for engineers and apprentices. This is a print edition only. The *Guide* is also found on the *Machinery's Handbook* CD-ROM.



Machinery's Handbook Pocket Companion, Revised First Edition

Richard P. Pohanish and Christopher J. McCauley, 352 pp., ISBN: 978-0-8311-3095-4, \$24.95

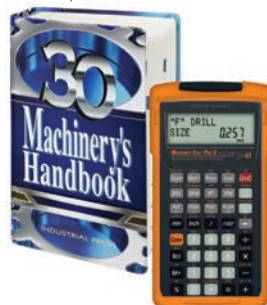
An extremely concise yet completely authoritative ready-reference that draws its content largely from the *Handbook*. The *Pocket Companion* is designed for anyone in the machine trades for whom convenient access to just the most basic data is essential. This book does not replace the *Handbook* but instead serves as a handy complement to the latter's vastly larger compilation of data, standards, and tests.



COMBO SPECIALS

Machinery's Handbook 30th Edition + CALC PRO 2

Toolbox & Calc Pro 2 Calculator Combo: ISBN: 978-0-8311-3609-3, \$159.95
 Large Print & Calc Pro 2 Calculator Combo: ISBN: 978-0-8311-3610-9, \$179.95



The Critics Have Spoken About Our Recent Releases!



Hammer's Blueprint Reading Basics, 4th Ed.



"A true blueprint for blueprint reading."

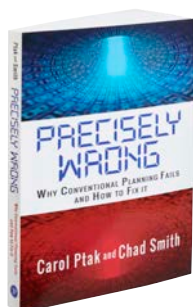
"We use it for training because of the examples and questions."

"Buy this work to get a great foundation."

"Perfect book for future machinists and equipment technicians/operators."

"For someone beginning the quest for mechanical and engineering knowledge, this is just the book."

(See page 25 for complete book details.)



Precisely Wrong: Why Conventional Planning Fails and How to Fix It

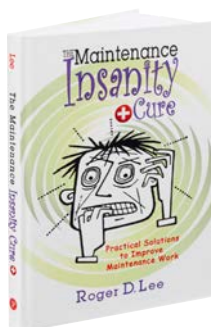


"A book that everybody working in the supply chain, and particularly manufacturing, needs to read."

"All buyers, planners and material managers need to read this book, and get a copy for their bosses."

"This is a must-read for any supply chain practitioner wondering why their MRP environment is so inefficient and hectic."

(See page 55 for complete book details.)



The "Maintenance Insanity" Cure: Practical Solutions to Improve Maintenance Work

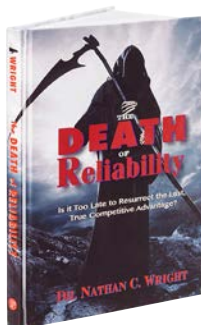


"Practical and effective approaches to end the reactive maintenance vicious cycle that causes high cost, poor reliability, and burn out."

"A smorgasbord of opportunities for maintenance improvement that can be implemented one at a time."

"Written in an easy-to-use format allowing readers to pick the specific topic of interest and get examples to follow."

(See page 34 for complete book details.)



The Death of Reliability: Is it Too Late to Resurrect the Last, True Competitive Advantage?



"Wright's approach to reliability could be the missing piece needed to complete the maintenance puzzle."

"I recommend this book to anyone in the workforce, not just maintenance and reliability."

"Dr. Wright writes in a way that gets you thinking about where you can make changes."

"There's a huge value for leaders and business managers to invest in this book."

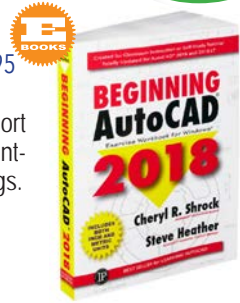
(See page 34 for complete book details.)

Beginning AutoCAD® 2018 Exercise Workbook

Cheryl R. Shrock and Steve Heather, 2017, 600pp., ISBN: 978-0-8311-3615-4, \$49.95

The 2018 version of the software boasts the new feature of being able to import SHX fonts when importing documents into AutoCAD®. That's a tremendous advantage for architects and designers, who use SHX fonts extensively in their drawings.

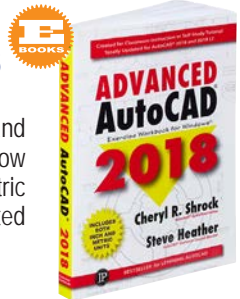
Includes
Both
INCH and
METRIC UNITS



Advanced AutoCAD® 2018 Exercise Workbook

Cheryl Shrock and Steve Heather, 2017, 600 pp., ISBN: 978-0-8311-3616-1, \$49.95

This workbook has been helping students, teachers, architects, designers and manufacturers to truly master the software for more than two decades. And now this work is better than ever, with the inclusion of both inch and metric measurements side-by-side. New features are explained and thoroughly illustrated so they can be combined with existing AutoCAD® options.

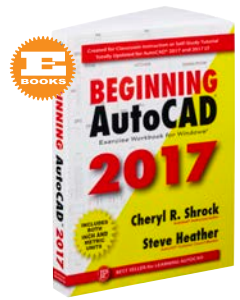


Beginning AutoCAD® 2017 Exercise Workbook

Cheryl R. Shrock and Steve Heather, 2016, 600 pp., ISBN: 978-0-8311-3602-4, \$47.95

Provides step-by-step instructions, detailed illustrations, examples, and projects for all the latest AutoCAD® 2017 features.

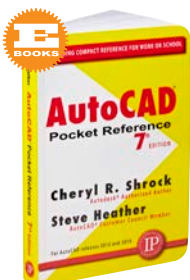
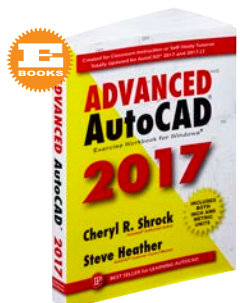
Includes
Both
INCH and
METRIC UNITS



Advanced AutoCAD® 2017 Exercise Workbook

Cheryl R. Shrock and Steve Heather, 2016, 575 pp., ISBN: 978-0-8311-3603-1, \$47.95

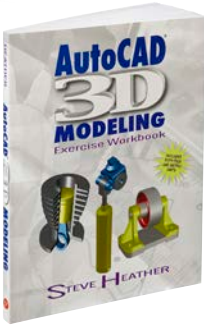
For those more advanced AutoCAD® users, this is the ideal reference for delving deeper into all the nuances of the 2017 version of the software.



AutoCAD® Pocket Reference, 7th Edition

Cheryl R. Shrock and Steve Heather, 2015, 350 pp., ISBN: 978-0-8311-3596-6, \$24.95

Organized in 13 sections, this handy reference is perfect for students, teachers, and all on-the-job AutoCAD® users who need an occasional reminder on how to use a command. This is not intended to be a substitute for a complete textbook—to learn AutoCAD® quickly and easily, you'll want to obtain a copy of *Beginning AutoCAD®* by the same authors.

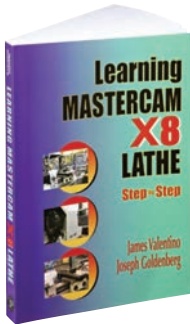


AutoCAD 3D Modeling Exercise Workbook

Steve Heather, 2017, 296 pp., ISBN: 978-0-8311-3613-0, \$49.95



The *AutoCAD® 3D Modeling Exercise Workbook* includes 8 lessons and 4 modeling projects, all of which are heavily illustrated. Each lesson starts with instructions on how to create 3D solid models, followed by exercises. The modeling projects are designed so that users can create complex 3D models by combining many of the commands learned previously.



Learning Mastercam X8 Lathe Step by Step

James Valentino and Joseph Goldenberg
2015, 500 pp., CD-ROM included, ISBN: 978-0-8311-3511-9, \$64.95



A thorough introduction to Mastercam X8 Lathe for those with little or no prior experience with the software. It serves as a reliable reference for on-the-job use or as a self-study manual. The award-winning author uses hundreds of visuals, instead of wordy explanations, and plenty of exercises.

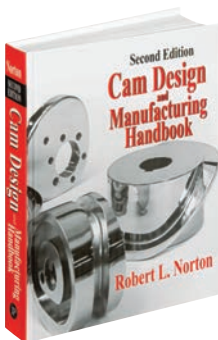


Learning Mastercam X7 Mill 2D Step by Step

James Valentino and Joseph Goldenberg
2013, 992 pp., CD-ROM included, ISBN: 978-0-8311-3486-0, \$79.95



A great companion to the *Mastercam X8 Lathe* book, this work is the perfect introduction to Mastercam Mill 2D. It features numerous examples and exercises, and tons of visuals.



Cam Design and Manufacturing Handbook, Second Edition

Robert L. Norton, 2009, 640 pp., ISBN: 978-0-8311-3367-2, \$99.95

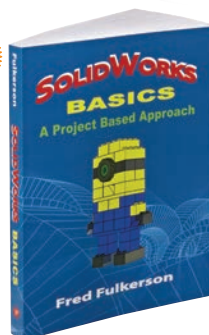


This second edition provides all the information needed to properly design, model, analyze, specify, and manufacture cam-follower systems. As a bonus, you can download a 90-day trial copy of the Professional Version of DYNACAM Plus with offers for a special discount to purchase the full version.

SolidWorks Basics: A Project Based Approach

Fred Fulkerson, 2015, 300 pp., ISBN: 978-0-8311-3593-5, \$44.95

This work takes readers step-by-step through the basic operations of SolidWorks. It reveals how SolidWorks, a full two-way parametric design tool, can be used to create fluid models with myriad features. It can be used in four-year engineering community colleges and vo-tech schools to industrial training centers.

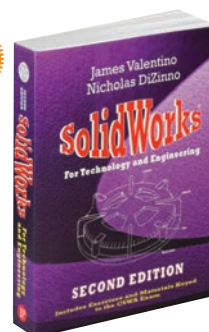


SolidWorks for Technology and Engineering, Second Edition

James Valentino and Nicholas DiZinno

2012, 900 pp., CD-ROM included, ISBN: 978-0-8311-3451-8, \$79.95

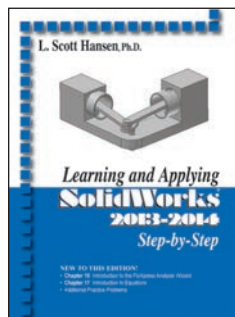
An ideal resource for anyone studying for the Certified SolidWorks Associate (CSWA) exam. All exercises and materials are specially keyed to preparing and acing the test. The authors use hundreds of visuals in place of wordy explanations to reinforce the concepts.



Learning and Applying SolidWorks 2013-2014: Step-by-Step

L. Scott Hansen, 2013, 450 pp., ISBN: 978-0-8311-3483-9, \$49.95

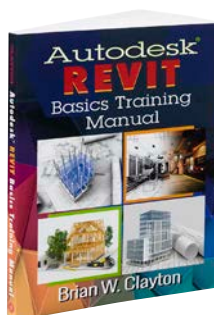
This unique workbook enables users to learn on their own with little or no outside help. Unlike other books of this kind, they begin at a very basic level and end at a fairly advanced level. It is perfect for anyone enrolled in Engineering and Technology programs, as well as professionals interested in learning SolidWorks, Solid Edge, CATIA, or Autodesk Inventor.

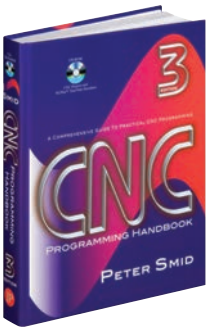


Autodesk® Revit Basics Training Manual

Brian W. Clayton, 2017, 250 pp., ISBN: 978-08311-3621-5, \$49.95

This spectacular, 4-color, heavily illustrated work focuses on the heart of the Revit software, so that users can improve their speed and productivity in the workplace or in classroom projects. Readers learn to navigate the software as beginners, or use the work as a quick on-the-job reference.



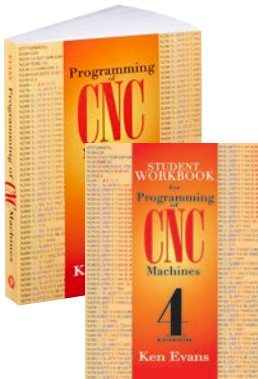


CNC Programming Handbook, Third Edition

Peter Smid, 2007, 640 pp., CD-ROM included,
ISBN: 978-0-8311-3347-4, \$79.95



The third edition of this bestselling handbook is loaded with formulas, calculations, programming examples, and handy reference materials. Optimized for FANUC and related control systems, it also includes detailed sections on CNC lathes with live tooling. This is a true must-have for every CNC user.



Programming of CNC Machines, Fourth Edition

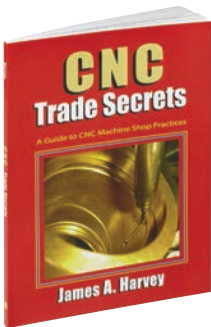
Ken Evans, 2016, 488 pp., ISBN: 978-0-8311-3524-9, \$49.95

Programming of CNC Machines, Student Workbook

Ken Evans, 2016, 176 pp., ISBN: 978-0-8311-3600-0, \$24.95



The 4th edition of this popular text includes in-depth information on how to program turning and milling machines, which is applicable to almost *all* control systems. Material on the selection of tools, cutting speeds, and the technology of machining is sure to benefit readers.

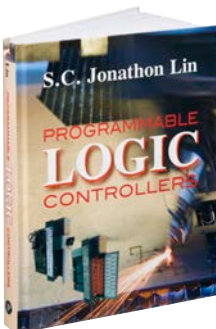


CNC Trade Secrets: A Guide to CNC Machine Shop Practices

James A. Harvey, 2014, 180 pp., ISBN: 978-0-8311-3502-7, \$32.95



From the author of the bestselling and universally praised *Machine Shop Trade Secrets* comes a manual that does for CNC machining what the first book did for conventional machining. With this guide to proven CNC machine shop practices, readers learn to produce machine parts faster, with fewer errors, and with less labor.



Programmable Logic Controllers

Su-Chen Jonathon Lin, 2016, 600 pp., ISBN: 978-0-8311-3507-2, \$89.95



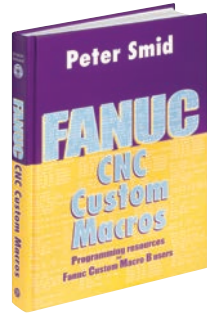
A comprehensive introduction to PLCs, including their control basics, numbers, logic, Boolean algebra, program design, systems, installation, operation, and maintenance. The work focuses on the Allen Bradley SLC 500, the biggest seller in North America, but also includes information on Siemens S7 and Mitsubishi FX, large international PLCs.

FANUC CNC Custom Macros

Peter Smid, 2005, 336 pp., ISBN: 978-0-8311-3157-9, \$59.95



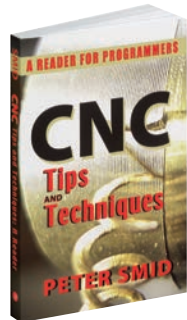
An invaluable companion to the author's bestselling *CNC Programming Handbook*, this book is a general introduction to the subject of macros (known as Custom Macros or User Macros). It makes you aware of what macros are, how to develop them, and how to use them effectively.

**CNC Tips and Techniques: A Reader for Programmers**

Peter Smid, 2013, 238 pp., ISBN: 978-0-8311-3472-3, \$32.95



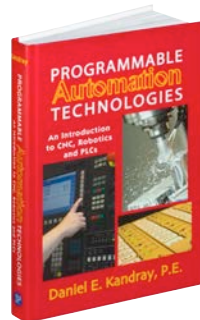
Peter Smid wrote dozens of columns that addressed the full gamut of CNC topics, such as tapping and threading and knurling; program length and memory needs; G-codes, M-functions, cycles, macros and more. Now, over 60 of the best of his columns are available. This Work is a treasure trove of Smid's "lost work" that is an invaluable any addition to any CNC toolkit.

**Programmable Automation Technologies:****An Introduction to CNC, Robotics, and PLCs**

Daniel E. Kandray, 2010, 500 pp., ISBN: 978-0-8311-3346-7, \$79.95



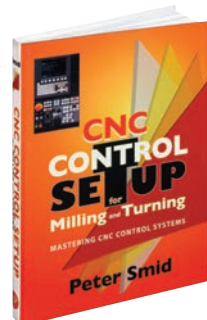
Focuses on programmable automation technologies used in industry. It provides a foundation on how to program computer numerical controlled (CNC) equipment, industrial robots, and programmable logic controllers (PLC). Readers learn specific programming languages related to each technology, including G-code and ladder logic. [An instructor's manual is available.](#)

**CNC Control Setup for Milling and Turning:****Mastering CNC Control Systems**

Peter Smid, 2010, 275 pp., ISBN: 978-0-8311-3350-4, \$64.95



Covering activities that a CNC operators performs daily, this reference describes working with offsets for milling and turning applications, interpretation of part programs, applying trial cuts, making program changes, and much more. Great emphasis is put on troubleshooting common problems that occur in CNC operations, and suggested methods of correction and prevention.



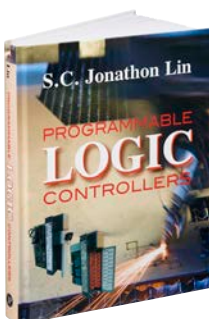


Grasshopper: Visual Scripting for Rhinoceros 3D

David Bachman, 2017, 250 pp., ISBN: 978-0-8311-3611-6, \$49.95



With Grasshopper users can build precise, customizable Rhino objects by simply dragging boxes around the screen and connecting them with virtual "wires." This work provides an introduction to modeling objects with Grasshopper. Through a series of examples and tutorials, readers will learn how to build complex objects by combining simple components.



Programmable Logic Controllers

Su-Chen Jonathon Lin, 2016, 600 pp., ISBN: 978-0-8311-3507-2, \$89.95



A comprehensive introduction to PLCs, including their control basics, numbers, logic, Boolean algebra, program design, systems, installation, operation, and maintenance. The work focuses on the Allen Bradley SLC 500, the biggest seller in North America, but also includes information on Siemens S7 and Mitsubishi FX, large international PLCs.

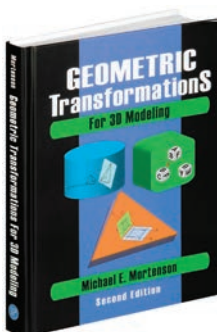


Human Machine Interface: Concepts and Projects

Samuel Guccione and James McKirahan

2016, 275 pp., ISBN: 978-0-8311-3582-9, \$59.95

Introduces significant concepts in the fields of Human Machine Interface and Programmable Logic Controllers, and features 14 step-by-step activities which provide experiences in creating process-control applications with HMI devices and specialized software. The programming allows the HMI operator to interface and interact with the system.



Geometric Transformations For 3D Modeling

Michael E. Mortenson, 2007, 380 pp., ISBN: 978-0-8311-3338-2, \$69.95

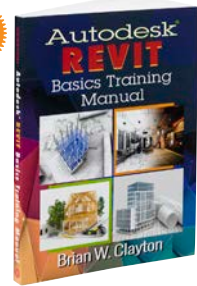


Written from a mathematical standpoint, this work introduces the theory and application of transformations. It describes how geometric objects may change position, orientation, or even shape when subjected to mathematical operations while their geometric identity and integrity remain unchanged. Perfect for those in 3D modeling, computer graphics, and animation.

Autodesk® Revit Basics Training Manual

Brian W. Clayton, 2017, 250 pp., ISBN: 978-08311-3621-5, \$49.95

This spectacular, 4-color, heavily illustrated work focuses on the heart of the Revit software, so that users can improve their speed and productivity in the workplace or in classroom projects. Readers learn to navigate the software as beginners, or use the work as a quick on-the-job reference.



Handbook of PVC Pipe Design and Construction, Fifth Edition

Uni-Bell PVC Pipe Association

2012, 600 pp., ISBN: 978-0-8311-3450-1, \$64.95

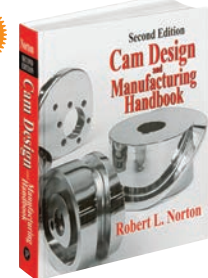
The Handbook of PVC Pipe Design and Construction is the most comprehensive reference on PVC pipe and fittings. It provides practical engineering and construction information together with recommendations applicable to the design and use of primarily underground PVC piping systems in both pressure and non-pressure applications.



Cam Design and Manufacturing Handbook, Second Edition

Robert L. Norton, 2009, 640 pp., ISBN: 978-0-8311-3367-2, \$99.95

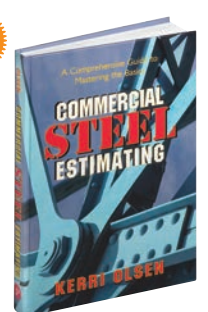
This second edition provides all the information needed to properly design, model, analyze, specify, and manufacture cam-follower systems. As a bonus, readers can download a 90-day trial copy of the Professional Version of DYNACAM Plus and get a special discount to purchase the full version.



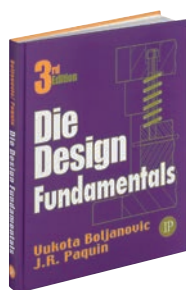
Commercial Steel Estimating

Kerri Olsen, 2012, 350 pp., ISBN: 978-0-8311-3439-6, \$99.95

There is no other compilation of information on steel estimating like this definitive title. Designed to provide enough information to train someone new in all the aspects of becoming a steel estimator, this manual includes many trade secrets. It is a must-have for aspiring steel estimators, architects, engineers, general contractors, owners, and developers who need to know about steel.



CONSTRUCTION & DESIGN



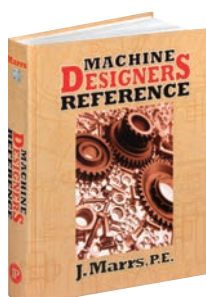
Die Design Fundamentals, Third Edition

Vukota Boljanovic and J.R. Paquin

2006, 320 pp., ISBN: 978-0-8311-3119-7, \$49.95



Provides coverage of fundamentals and real-world practices so readers understand the interrelationships between die design and the economic factors involved in manufacturing sheet-metal forming products. Each chapter is illustrated in two ways: first, as a portion of an engineering drawing that is actually drawn on the design; second, pictorially, to improve the user's visualization.

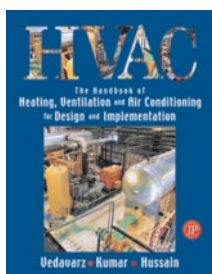


Machine Designers Reference

J. Marrs, 2011, 716 pp., ISBN: 978-0-8311-3432-7, \$79.95



This practical, on-the-job reference is packed with essential charts and tables, such as fastener data, locating feature data, material selection guides, and component selection charts, saving time in the selection, sizing, and tolerancing of mechanical parts and assemblies. You will also find concise best practices for mechanical design combined with essential charts and tables.



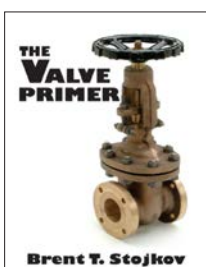
HVAC: The Handbook of Heating, Ventilation and Air Conditioning for Design and Implementation

A. Vedavarz, S. Kumar, and M. Hussain

2007, 1,008 pp., ISBN: 978-0-8311-3163-0, \$99.95



This comprehensive handbook provides instant access to all the data, calculations, and equations needed for modern HVAC design and implementation. Detailing design methods, operation procedures, and energy conservation and efficiency tools, this essential reference provides a solution to a myriad of HVAC design needs.



The Valve Primer

Brent J. Stojkov, 1997, 180 pp., ISBN: 978-0-8311-3077-0, \$39.95



Written for engineers, operators, and maintenance technicians in the power generation, oil, chemical, and other processing industries, this book provides knowledge of valve types and designs, materials used to make valves, where various designs should and should not be used, and factors to consider in specifying valve maintenance and repair.

DRAFTING & GRAPHICS

25

Hammer's Blueprint Reading Basics, 4th Edition

Charles Gillis & Warren Hammer

2017, 450 pp., ISBN: 978-0-8311-3614-7, \$39.95



This revision features a complete overhaul of all figures, new material on welded and molded parts, expansion of topics such as threads and gears, the inclusion of metrics, international symbols, and updated content from recognized drawing standards. Chapters explain the topic, detailed drawings, review questions, and worksheets. *An Instructor's Resource Kit is sold separately.*



Como Leer Dibujos Industriales

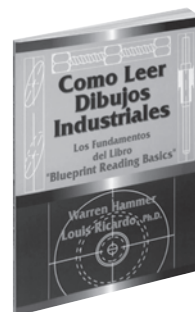
Blueprint Reading Basics, Spanish Language Edition

Warren Hammer and Louis Ricardo, Translator

2000, 164 pp., ISBN: 978-0-8311-3126-5, \$29.95



This self-training manual includes worksheets designed to facilitate the reader's ability to form a mental picture from a drawing. The Spanish language version of the classic *Blueprint Reading Basics* features industry standards, practices, and copies of industrial prints throughout, providing a balanced presentation of blueprint reading theory and industrial applications.

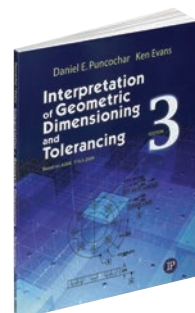


Interpretation of Geometric Dimensioning and Tolerancing, Third Edition

Daniel E. Puncocchar, Ken Evans, 2011, 192 pp., ISBN: 978-0-8311-3421-1, \$39.95



Geometric Dimensioning and Tolerancing (GD&T) is accepted around the world as the international symbolic language that allows engineers and machinists to use drawings to communicate from the design stage through manufacturing and inspection. This book is an on-the-job reference that provides an understanding of the complex ASME Y14.5-2009 "Dimensioning and the Tolerancing" standard.

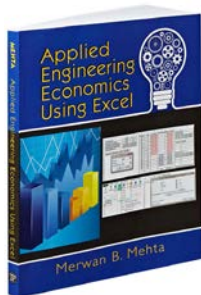


Mathematics for Computer Graphics Applications, 2nd Edition

Michael Mortenson, 1999, 416 pp., ISBN: 978-0-8311-3111-1, \$57.95

This work introduces the mathematics that are the foundation of many of today's computer graphics applications, including CAD/CAM and geometric modeling. It presents 20 key subject areas supplemented by more than 300 illustrations exercises. *A solutions manual is available to instructors.*



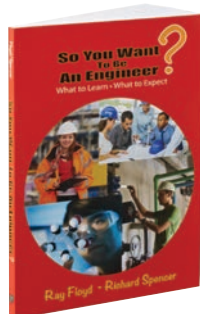


Applied Engineering Economics Using Excel

Merwan B. Mehta, 2015, 272pp., ISBN: 978-0-8311-3501-0, \$64.95



This must-have textbook addresses civil and electrical engineering issues not sufficiently covered by other engineering economics works. It starts with resolving personal financial matters and progresses to the complexities of engineering economic calculations. Practical examples and exercises with answers at the end of each chapter teach students to solve problems.



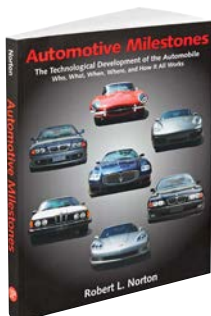
So You Want to Be an Engineer?

What to Learn and What to Expect

Ray Floyd and Richard Spencer, 2015, 220 pp., ISBN: 978-0-8311-3523-2, \$34.95



Provides students with practical knowledge of what to expect as they enter the engineering field with a career in mind. It serves as a practical guide for guidance counselors and recent engineering graduates, and contains topics infrequently found in other resources, such as mentoring, interviewing, intellectual property, and how to navigate the variety of career choices.

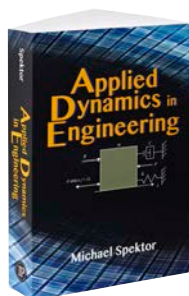


Automotive Milestones: Who, What, When, Where, and How It All Works

Robert L. Norton, 2015, 300 pp., ISBN: 978-0-8311-3520-1, \$37.95



This general interest book describes the development of automotive technology and engineering from the start of the industry pre-1900 to the present day. It explains how various systems and elements in the automobile work in layman's terms, without resorting to mathematics, and highlights the key milestones in the historical development of automotive technology.



Applied Dynamics in Engineering

Michael Spektor, 2015, 720 pp., ISBN: 978-0-8311-3522-5, \$79.95

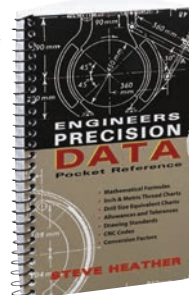


This reference provides solutions for 96 linear differential equations of motion that describe common mechanical engineering problems in dynamics. These equations comprise all possible combinations of parameters for actual engineering systems. A special Guiding Table directs readers to the section of the book with the solution corresponding to the problems of their interest.

Engineers Precision Data Pocket Reference

Steve Heather, 2014, 96 pp., ISBN: 978-0-8311-3496-9, \$24.95

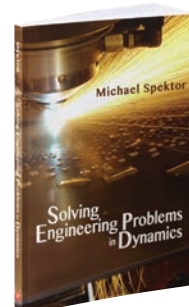
A pocket-size reference with all the fundamental data engineers need: taping and drilling charts, hole coordinate charts with common sizes already worked out, speeds/feeds, material specs, drawing symbols and standards, CNC machine codes, and much more.



Solving Engineering Problems in Dynamics

Michael Spektor, 2014, 172 pp., ISBN: 978-0-8311-3494-5, \$29.95

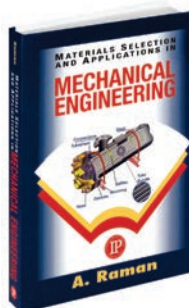
Helps practicing engineers successfully analyze real mechanical systems by presenting comprehensive methods for analyzing the motion of engineering systems and their components. This analysis covers three basic phases: 1) Composing the differential equation of motion; 2) Solving the differential equation of motion; and 3) Analyzing the solution.



Materials Selection and Applications in Mechanical Engineering

Aravamudhan Raman, 2006, 512 pp., ISBN: 978-0-8311-3287-3, \$84.95

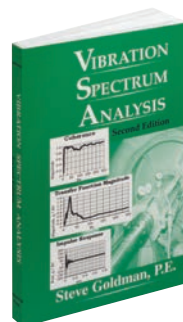
In-depth coverage on materials of use, their principles, processing and handling details. Introduces the materials commonly used, along with a description of their properties that decide their functional characteristics and selection for use, typical problems encountered during application, non-destructive test procedures used in maintenance to detect and correct problems, and more.



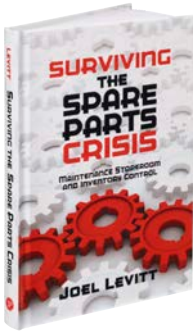
Vibration Spectrum Analysis, Second Edition

Steve Goldman, 1990, 272 pp., ISBN: 978-0-8311-3088-6, \$44.95

This second edition includes information on current instrumentation, as well as additional appendices, case histories, and practice questions. Vibration analysts, predictive maintenance specialists, and field mechanics will find valuable information on using techniques of spectrum analysis in solving problems and enhancing machine reliability in this key reference.



INVENTORY MANAGEMENT

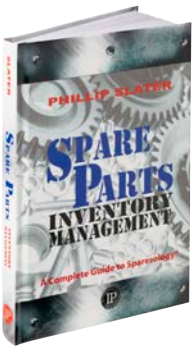


Surviving the Spare Parts Crisis: Maintenance Storeroom and Inventory Control

Joel Levitt, 2016, 272 pp., ISBN: 978-0-8311-3604-8, \$49.95



Provides dozens of ideas to properly reduce inventory, reduce usage, and save money in parts, all while maintaining service levels. Levitt shows how the maintenance department can provide better support to purchasing agents and buyers.

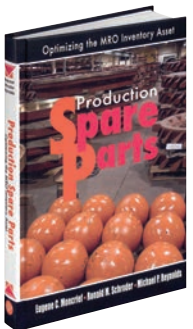


Spare Parts Inventory Management: A Complete Guide to Sparesology®

Phillip Slater, 2016, 272 pp., ISBN: 978-0-8311-3608-6, \$49.95



Spare Parts Inventory Management covers the whole part's life cycle, from initial purchase to final disposal, and addresses issues throughout, including MRO—maintenance, repair, and overhaul. Sparesology® is a term coined by Slater to describe the discipline of optimizing the physical, financial, and human resource management processes of spare parts inventory management.



Production Spare Parts: Optimizing the MRO Inventory Asset

Eugene C. Moncrief, Ronald M. Schroder, and Michael P. Reynolds
2006, 350 pp., ISBN: 978-0-8311-3228-6, \$52.95



This book shows how to optimize a company's spare parts assets. This compilation of the best techniques and practices for optimizing MRO inventory offers numerous case studies showing ways to improve plant inventory performance.



Smart Inventory Solutions, Second Edition Improving the Management of Engineering Materials and Spare Parts

Phillip Slater, 2010, 275 pp., ISBN: 978-0-8311-3401-3, \$49.95



This practical book provides requirements for managing engineering materials and spare parts and what to do to improve results. It also discusses what to do to optimize inventory holdings, how to identify the factors that have greatest impact on inventory levels, and who to involve in taking action.

Machinery's Handbook 30th Edition

Oberg, Jones, Horton, and Ryffel, Editor McCauley

See page 14-15 for full descriptions of all Machinery's Handbook, 30th Edition products.

Toolbox: 4.6" x 7", 2,896 pp., ISBN: 978-0-8311-3091-6, \$105.00

Large Print: 7" x 10", 2,896 pp., ISBN: 978-0-8311-3092-3, \$125.00

CD-ROM: 4,024 pp., ISBN: 978-0-8311-3093-0, \$105.00

Toolbox & CD-ROM Combo: ISBN: 978-0-8311-3096-1, \$180.00

Large Print & CD-ROM Combo:

ISBN: 978-0-8311-3097-8, \$199.95

MH Guide: 296 pp., ISBN: 978-0-8311-3094-7, \$19.95

MH Pocket Companion: 352 pp., ISBN: 978-8311-3095-4, \$24.95

Toolbox & Calc Pro 2 Calculator Combo: ISBN: 978-0-8311-3609-3, \$159.95

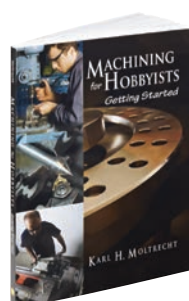
Large Print & Calc Pro 2 Calculator Combo: ISBN: 978-0-8311-3610-9, \$179.95



Machining for Hobbyists: Getting Started

Karl H. Moltrecht, 2015, 300 pp., ISBN: 978-0-8311-3510-2, \$34.95

Machining for Hobbyists is for anyone who wants to set up or expand a small machine shop in their garage, basement, or shed, or perhaps in a rented space. With their own shop, hobbyists can build models and undertake other building and maintenance projects that involve using different metals.

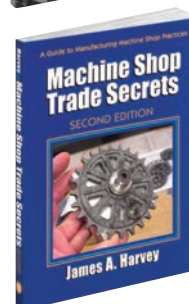


Machine Shop Trade Secrets, Second Edition

A Guide to Manufacturing Machine Shop Practices

James A. Harvey, 2013, 320 pp., ISBN: 978-0-8311-3477-8, \$49.95

This bestselling manual will have users thinking and producing like experienced machinists. *Machine Shop Trade Secrets* provides practical how-to information that can immediately be put to use to improve machining skills, craftsmanship, and productivity. Chapters have helpful tables summarizing the tips, suggestions, and secrets found in each section.



Machinery's Handbook Made Easy

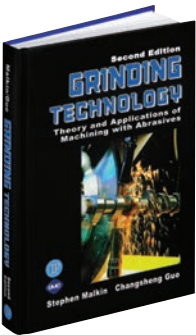
Edward T. Janecek, 2012, 308pp., ISBN: 978-0-8311-3448-8, \$34.95

(Used in conjunction with the Machinery's Handbook 28th and 29th edition only)

In this time-saving navigational tool for *Machinery's Handbook* machinists, engineers, designers, draftsmen, apprentices, and students will learn how to quickly find exactly what they need from the *Handbook's* vast compilation of data, standards, and text. The contents are organized in an intuitive, easy-to-follow manner and are cross referenced to the 28th and 29th editions.



MACHINE SHOP & TOOLS



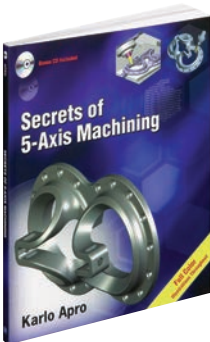
Grinding Technology, Second Edition

Stephen Malkin and Changsheng Guo

2008, 320 pp., ISBN: 978-0-8311-3247-7, \$79.95



Describes abrasives and bonded abrasive cutting tools, thermal analyses of the grinding process for conventional, creep feed, and superabrasive grinding, and methods for enhancing and optimizing grinding operations, simulating grinding processes, and computer control of grinding machines.



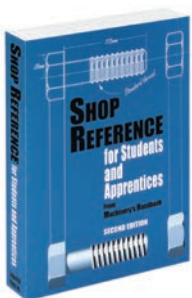
Secrets of 5-Axis Machining

Karlo Apro, 2008, 184 pp., ISBN: 978-0-8311-3375-7, \$59.95

CD-ROM included



Secrets of 5-Axis Machining presents information gathered during the author's 30 years of hands-on experience in the manufacturing industry, bridging continents and multiple languages, both human and G-Code. This book will demystify the subject for anyone who is interested in using this technology to its full potential. It is not specific to one particular CAD/CAM system.



Shop Reference for Students and Apprentices, Second Edition

Edward G. Hoffman and Christopher J. McCauley

2001, 544 pp., ISBN: 978-0-8311-3079-4, \$29.95



From the ability to understand and use shop mathematics to reading and interpreting shop drawings, this work provides the information students need as they prepare for jobs in metalworking industries. It includes material taken from *Machinery's Handbook* and other authoritative sources, all presented in a clear, and easy-to-follow form.



Handbook of Dimensional Measurement, Fifth Edition

Mark Curtis and Francis Farago

2013, 656 pp., ISBN: 978-0-8311-3465-5, \$84.95

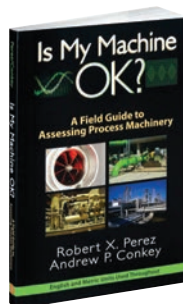


This unique handbook is organized into chapters by gage type and function. Individual chapters move from simple to complex, from timeless measurement techniques to the most modern and innovative. This work is the most comprehensive source for dimensional measurement information available.

Is My Machine OK? A Field Guide to Assessing Process Machinery

Robert X. Perez and Andrew P. Conkey

2011, 300 pp., ISBN: 978-0-8311-3440-2, \$34.95



Provides those who deal with industrial machines a handy guide for assessing the potential risk of failure, and offers a solid basis for reliable and safe machinery operation. It was designed to be taken into the field by operators, plant supervisors, maintenance personnel, and reliability professionals in order to make informed decisions about their equipment.

Machine Shop Practice, Second Edition

Karl H. Moltrecht

Volume I: 1981, 496 pp., ISBN: 978-0-8311-1126-7, \$34.95

Volume II: 1981, 496 pp., ISBN: 978-0-8311-1132-8, \$34.95



Everything the reader needs to know about the intelligent and efficient operation of machine tools. Enhanced by over 760 illustrations and 70 tables, these volumes offer sections on numerical control; grinding wheels, single point cutting tools and tool wear; basic drilling machine setups; and formulas for estimating the power required for planing. Includes methods of setting up the workpiece on milling and, horizontal boring machines, planers, and shapers.

Guide to World Screw Threads

P.A. Sidders, 1969, 318 pp., ISBN: 978-0-8311-3410-5, \$39.50



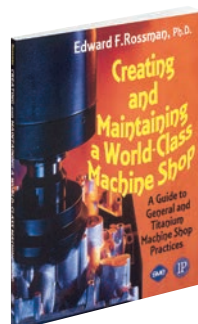
Provides encyclopedic coverage of the different types of threads standardized throughout the world. Includes Unified and American thread series; American translational and American pipe threads; British threads of Whitworth and non-Whitworth forms; ISO metric threads; French automobile; and German and Swiss metric.

Creating and Maintaining a World-Class Machine Shop

A Guide to General and Titanium Shop Practices

Edward F. Rossman, 2007, ISBN: 978-0-8311-3299-6, \$44.95

This manual is about proven principles of success in metal fabrication. While the primary focus is on machining titanium, many of the items discussed apply to *any* machining or manufacturing enterprise. If you own, manage, or work at a machine shop, or at virtually any metal fabrication shop, you will find yourself referring to this manual often.

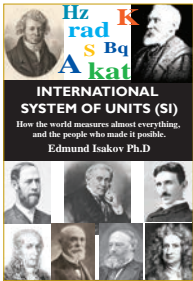




Jig and Fixture Design Manual

Erik K. Henriksen, 1973, 312 pp., ISBN: 978-0-8311-1098-7, \$54.95

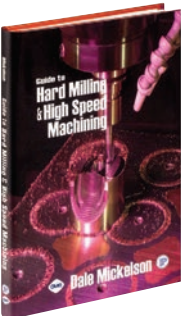
This comprehensive and easy-to-understand reference presents the fundamental principles for combining components into successful fixtures. It includes metric conversion tables and appendices on transfer tolerances, measuring of tolerances, measuring of angles in radians, and the dimensioning of fixtures by stress analysis.



International System of Units (SI)

Edmund Isakov, 2013, 200 pp., ISBN: 978-0-8311-0231-9, \$24.95

Provides detailed information on the metric system, its origin, history, and how the base and derived units were established. The book has four chapters: Measurement Systems, the International System of Units, Metrication in the United States, and United States Metric Association.



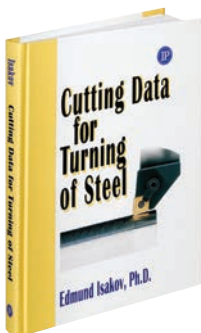
Guide to Hard Milling & High Speed Machining*

Dale Mickelson, 2006, 300 pp., ISBN: 978-0-8311-3319-1, \$59.95



This work details variables associated with the process of hard milling and high speed machining. Six machine manufacturers are covered—Mikron, Okuma, Yashida, Roku Roku, Johnford, and Moore—as well as two holder manufacturers, Heartech Precision and Big Kaiser, and one probe and laser manufacturer Blum.

*Jointly Published by SME and Industrial Press.



Cutting Data for Turning of Steel

Edmund Isakov, 2008, 250 pp., ISBN: 978-0-8311-3314-6, \$54.95



Machining is one of the most important manufacturing processes which removes unwanted material in the form of chips from a workpiece. The machining recommendations provided in this book cover turning, as it is more efficient than end milling, boring, or drilling. This work is useful for selecting machining parameters that allow for maximum productivity from machine tools.

MACHINE SHOP & TOOLS

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Basic Machining Reference Handbook, Second Edition

Arthur R. Meyers and Thomas Slattery

2001, 299 pp., ISBN: 978-0-8311-3120-3, \$54.95



This time-tested reference starts with those machining steps that most often begin the machining process and moves chronologically through the basic machining operations. It contains chapters on numerical control and computerized operations, additional speeds and feeds tables, general troubleshooting concepts, and a basic review of relevant computer terms and applications.



Machine Tool Technology Basics

Steve Krar, Arthur Gill, Peter Smid, Paul Wanner

2003, 416 pp., ISBN: 978-0-8311-3134-0, \$67.95



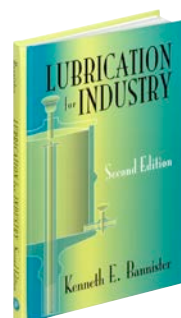
Divided into three sections, this text starts with basic metal-removal operations of conventional machines, progresses to CNC machines, and finishes with CAD/CAM. It offers practical examples on basic operations, CNC programming and CAD/CAM design in an easy-to-follow point form, and provides review questions at the end of each unit.



Lubrication for Industry, Second Edition

Kenneth E. Bannister, 2006, 256 pp., ISBN: 978-0-8311-3278-1, \$44.95

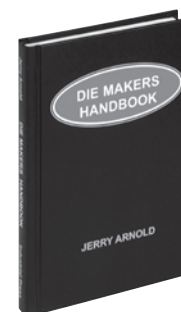
Dispels the myths surrounding lubrication and helps users develop an understanding of how it impacts machine reliability and availability. Teaches how to create a lubrication management program and effectively troubleshoot lubrication-related problems, while gaining essential information required to significantly reduce equipment downtime and increase life cycle management.

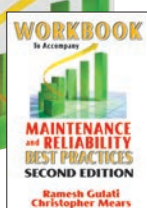
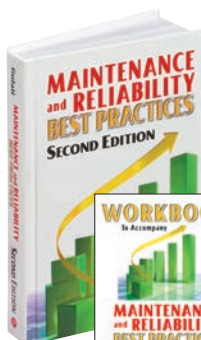


Die Makers Handbook

Jerry Arnold, 2000, 224 pp., ISBN: 978-0-8311-3132-6, \$32.95

Written, illustrated, and edited by an experienced die maker, this book is expressly prepared to help avoid the pitfalls associated with stamping designs, die designs, and stamping die function. This work was especially designed for advanced apprentices, journeymen, and students of die design.





Maintenance and Reliability Best Practices, Second Ed.

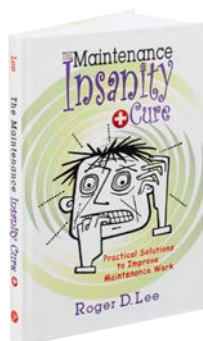
Ramesh Gulati, 2012, 474 pp., ISBN: 978-0-8311-3434-1, \$54.95

Workbook to Accompany Maintenance and Reliability Best Practices

Ramesh Gulati and Christopher Mears, 2013, 264 pp., ISBN: 978-0-8311-3435-8, \$29.95



This book explains the ongoing process of implementing best practices and is an essential reference for those who want to ensure their company's assets are operating as and when needed and at a reasonable cost. Includes reviews of chapter objectives and summaries, answers to the main text's assessment exercises, and additional questions. Each chapter concludes with a set of research questions to help readers expand their understanding of the content as they prepare to apply best practices.

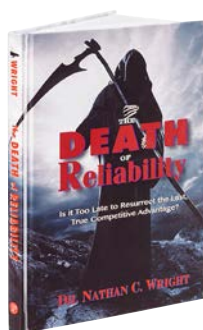


The "Maintenance Insanity" Cure: Practical Solutions to Improve Maintenance Work

Roger D. Lee, 2017, 275 pp., ISBN: 978-0-8311-3624-6, \$54.95



Einstein defined insanity as "doing the same thing over and over again and expecting different results." That's exactly what is happening in maintenance organizations. This work guides companies to improve how they do maintenance, keep their equipment running longer, and create a more efficient structure — the perfect antidote for maintenance insanity.



The Death of Reliability: Is it Too Late to Resurrect the Last, True Competitive Advantage?

Dr. Nathan C. Wright, D.M., MBA, CMRP, PMP, MLT1

2017, 208 pp., ISBN: 978-0-8311-3622-2, \$39.95



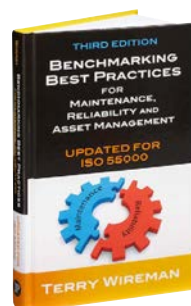
Are we facing the death of reliability? There are three components that are the root causes of unreliability, and, if eliminated, will lead to reliability: 1. Improper Lubrication; 2. Contamination; 3. Improper Installation. Dr. Wright goes above the "what" and "why" to offer the "how to" of reliability.

Benchmarking Best Practices for Maintenance, Reliability and Asset Management, Third Edition

Terry Wireman, 2015, 300 pp., ISBN: 978-0-8311-3503-4, \$54.95



This bestselling book includes an overview of the seminal ISO 55000 standard and identifies the specific points where it will impact maintenance and reliability. It presents an overview of the benchmarking process, a detailed form for surveying and "grading" maintenance management, and a database of the results for more than 100 companies that have used this survey.



Complete Guide to Preventive & Predictive Maintenance, Second Edition

Joel Levitt, 2011, 256 pp., ISBN: 978-0-8311-3441-9, \$54.95



Addresses four elements essential for success in preventive maintenance systems—engineering, economic, psychological (people), and management—providing readers with a balanced understanding of what is happening in their organizations. Included are check sheets, sample task lists, protocols for analysis, stories, and case histories.

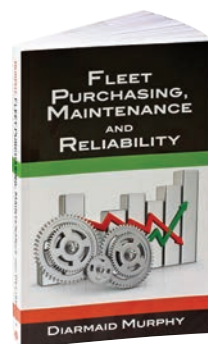


Fleet Purchasing, Maintenance and Reliability

Diarmaid Murphy, 2014, 270 pp., ISBN: 978-0-8311-3504-1, \$49.95



This book covers all aspects of the vehicle and fleet purchasing process from the perspective of the purchaser. It discusses the process of how to approach a fleet purchase once the decision is made. The book then leads into operations of the fleets, maintenance systems, efficiencies, inefficiencies, overall evaluation, and finally, a discussion of maintenance backlog.



Reliability-Centered Maintenance Updated Second Edition, v 2.3**

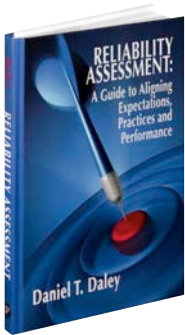
John Moubray, 1997, 448 pp., ISBN: 978-0-8311-3146-3, \$69.95



The most cost-effective way to develop effective maintenance strategies, reliability-centered maintenance (RCM) is a process used to ensure that physical assets continue to do what users want them to do. This work covers condition monitoring, the analysis of functions and failures, human error, management of

**Sales limited to the United States and Canada.





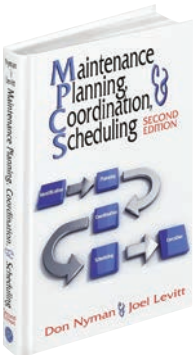
Reliability Assessment:

A Guide to Aligning Expectations, Practices and Performance

Daniel T. Daley, 2006, 192 pp., ISBN: 978-0-8311-3407-5, \$44.95



Intended to simplify the assessment of reliability by first identifying current expectations then assessing current practices to determine if expectations are realistic or not supported by programs and practices. Reliability engineers, maintenance and reliability managers, and engineering managers looking for ways to enhance performance will benefit from the information found in this book.

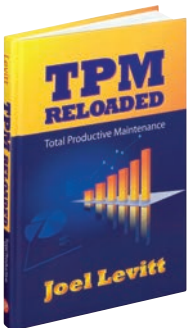


Maintenance Planning, Coordination, & Scheduling, 2nd Ed.

Don Nyman and Joel Levitt, 2005, 300 pp., ISBN: 978-0-8311-3418-1, \$49.95



This edition deals specifically with the preparatory tasks that lead to effective utilization and application of maintenance resources. It is a vital training resource for planners, and a valuable guide for those who interface with the planning and scheduling function and are dependent upon the contributions of planning and scheduling operational excellence.

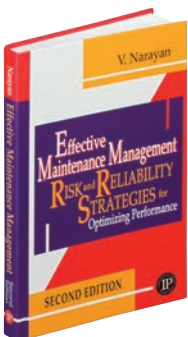


TPM Reloaded: Total Productive Maintenance

Joel Levitt, 2010, 140 pp., ISBN: 978-0-8311-3426-6, \$39.95



An innovative look at implementing Total Productive Maintenance (TPM), this book demonstrates that TPM is less about moving maintenance tasks to operations than moving accountability for aggregate output of the plant to operators. Shows that effective TPM requires a radical difference in management's view of the worker, and a sea change in the way workers view their own roles.



Effective Maintenance Management:

Risk and Reliability Strategies for Optimizing Performance, 2nd Ed.

V. Narayan, 2011, 400 pp., ISBN: 978-0-8311-3444-0, \$54.95



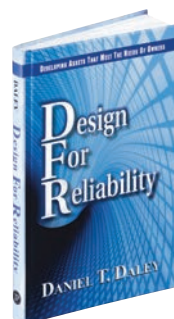
Chosen as the basis for a course on risk and reliability strategies offered by ASME. Describes the crucial role of maintenance in minimizing the risk of safety or environmental incidents, adverse publicity, and loss of profitability. It explains the applicability of risk-reduction tools to specific situations.

Design for Reliability: Developing Assets that Meet The Needs of Owners



Daniel T. Daley, 2011, 250 pp., ISBN: 978-0-8311-3437-2, \$49.95

Most Design for Reliability books approach DFR from the seller's or manufacturer's viewpoint. As a result, few assets are designed and developed to meet the future owners need for reliability, availability, and maintainability over the life of the asset. This book provides owners with the tools needed to ensure that their requirements are followed in developing new assets.



The Handbook of Maintenance Management, 2nd Edition



Joel Levitt, 2009, 500 pp., ISBN: 978-0-8311-3389-4, \$69.95

The field of maintenance is hard to approach because the language is strange. Written by a highly acclaimed maintenance professional, this comprehensive and user-friendly resource introduces the fundamentals of maintenance and related jargon. This second edition of a classic is useful for maintenance professionals worldwide.



Lean Maintenance



Joel Levitt, 2008, 272 pp., ISBN: 978-0-8311-3352-8, \$49.95

This practical book takes the reader on a journey from uncovering waste to selling the projects, to management and delivering results. Every area in maintenance is covered. What's more, the user will be able to immediately use this book to start the process of saving money, energy, and time.



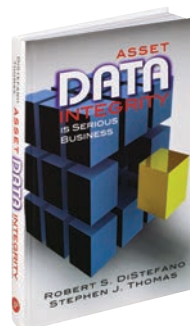
Asset Data Integrity Is Serious Business



Robert S. DiStefano and Stephen J. Thomas

2006, 225 pp., ISBN: 978-0-8311-3422-8, \$59.95

Asset Data Integrity is a critical aspect of every business, yet it is often overlooked. This book provides a road map to achieving value. An assessment tool is provided, so once the problem is recognized by the reader, areas of improvement can be easily discovered and addressed.

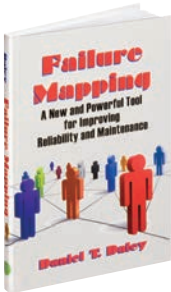




Managing Factory Maintenance, Second Edition

Joel Levitt, 2005, 298 pp., ISBN: 978-0-8311-3189-0, \$52.95

Educates readers about the globalization of production, changing of the guard of maintenance leadership, and practical approaches for adapting to these changes. It covers potential problems, new opportunities, improvement of maintenance and production, evaluating and improving current maintenance practices, quality improvement, maintenance process aids, and strategies.



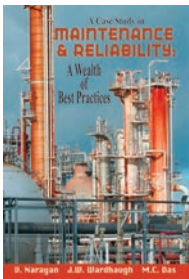
Failure Mapping:

A New and Powerful Tool for Improving Reliability and Maintenance

Daniel T. Daley, 2009, 176 pp., ISBN: 978-0-8311-3386-3, \$44.95



This work introduces Failure Mapping (FM) by comparing typical functions in an organization that benefit from FM to one without it. It describes the process used to create Failure Maps that connect Malfunction Reports with Failure Modes to help users understand the most likely final disposition based only on the initial report and the statistics produced by historical experience.



Case Studies in Maintenance and Reliability:

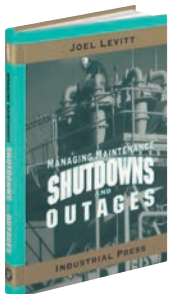
A Wealth of Best Practices

V. Narayan, J.W. Wardhaugh, M.C. Das

2012, 350 pp., ISBN: 978-0-8311-3323-8, \$54.95



Describes 42 real-life events in the careers of the authors from which they gained insights into the applicable best practices in maintenance and reliability. Designed to share knowledge and experience in an accessible fashion, this resource explains the event or situation the authors faced, and how they dealt with it.



Managing Maintenance Shutdowns and Outages

Joel Levitt, 2004, 208 pp., ISBN: 978-0-8311-3173-9, \$52.95



This title organizes the details of maintenance shutdowns into a manageable form by introducing all of the steps to a successful shutdown or outage. Included are steps for each phase (initiation, planning, execution, closeout, lessons learned), master lists of everything users will need to do, and numerous check-lists.

Developing Performance Indicators for Managing Maintenance, Second Edition

Terry Wireman, 2005, 288 pp., ISBN: 978-0-8311-3184-5, \$49.95

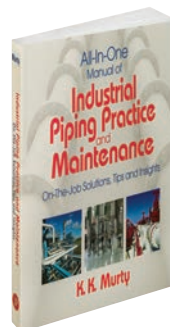
Provides the key details on how to measure and improve one of the most important functions in an organization today: Equipment or Asset Maintenance Management. Using the Balanced Scorecard approach, this book shows how to effectively measure and manage the entire spectrum of maintenance activities to help achieve competitive advantage.



All-in-One Manual of Industrial Piping Practice and Maintenance: On-the-Job Solutions, Tips and Insights

Kirshna Murty, 2010, 384 pp., ISBN: 978-0-8311-3414-3, \$54.95

This practical book offers complete coverage of piping practices and maintenance all in one place. Written by a professional with 35 years of hands-on knowledge and experience in pipeline building, operating, and maintenance, this manual is designed to be kept at the ready.



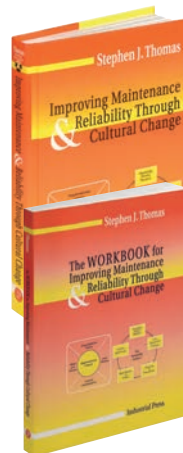
Improving Maintenance and Reliability Through Cultural Change

Stephen J. Thomas, 2005, 256 pp., ISBN: 978-0-8311-3190-6, \$49.95

The Workbook for Improving Maintenance and Reliability Through Cultural Change

Stephen J. Thomas, 2006, 400 pp., ISBN: 978-0-8311-3276-7, \$29.95

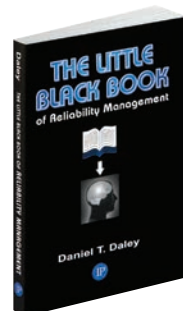
This innovative book explains how to improve your maintenance and reliability performance at the plant level by changing the organization's culture. It demystifies the concept of organizational culture and links it with the eight elements of change: leadership, work process, structure, group learning, technology, communication, interrelationships, and rewards. The workbook complements the main text with chapter summaries, charts, and lists. It also contains valuable forms, exercises, and work activities to help promote the book's concepts.



The Little Black Book of Reliability Management

Daniel T. Daley, 2007, 200 pp., ISBN: 978-0-8311-3356-6, \$24.95

Provides the reader with a fresh but comprehensive perspective on the subject of reliability management. It describes the programs and discipline needed if the reader desires the "right to expect" a higher level of reliability performance. This unique resource is perfect for individuals working in plants and in other organizations that are dependent on the reliability of complex physical assets.

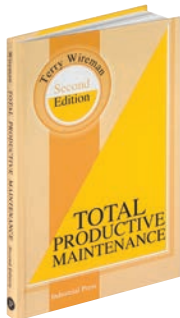




Maintenance Management & Regulatory Compliance Strategies

Terry Wireman, 2003, 208 pp., ISBN: 978-0-8311-3127-2, \$49.95

Maintenance Management and Regulatory Compliance Strategies is designed to create awareness of how a company's maintenance management function can contribute or detract from its compliance with regulatory requirements. Featuring an overview of the four major compliance programs, this work provides a cross-section of regulations for each program that maintenance may impact.



Total Productive Maintenance, Second Edition

Terry Wireman, 2004, 224 pp., ISBN: 978-0-8311-3172-2, \$49.95



Focuses on the financial approach to TPM to produce quantifiable results. Includes: 1) Case studies that show how to explain the value of OEE to everyone in the organization; 2) OEE discussions showing how to "dollarize" results and present the financial terms; 3) Goals and objectives of TPM; 4) Pitfalls that may be encountered during TPM implementation.

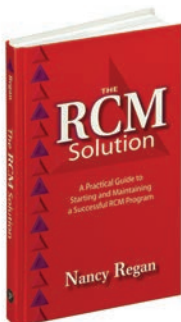


The Maintenance Scorecard: Creating Strategic Advantage

Daryl Mather, 2005, 320 pp., ISBN: 978-0-8311-3181-4, \$52.95



Through a unique adaptation of the balanced scorecard approach to asset management, this book provides a structure for both the development of strategy and its implementation. Includes a catalog of indicators with their uses and weaknesses, a guide to measuring the success of RCM programs, and information on each phase of the maintenance scorecard approach.



The RCM Solution: A Practical Guide to Starting and Maintaining a Successful RCM Program

Nancy Regan, 2012, 300 pp., ISBN: 978-0-8311-3424-2, \$54.95



This book offers a how-to approach with minimal theory by a well-known participant in the leading maintenance organizations and conferences. It provides a fundamental, common sense understanding of RCM, as well as a total solution for implementing RCM in any organization. A significant portion is dedicated to SAE JA1011-compliant RCM.

Overall Equipment Effectiveness:

A Powerful Production Maintenance Tool for Increased Profits

Robert C. Hansen, 2001, 256 pp., ISBN: 978-0-8311-3138-8, \$52.95

This innovative book centers on developing and measuring true Overall Equipment Effectiveness (OEE). The author demonstrates that true OEE correlates with factory output, and provides a methodology to link OEE with net profits that can be used by reliability managers to build solid business cases for improvement projects.

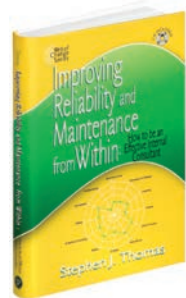


Improving Reliability and Maintenance from Within:

How To Be an Effective Internal Consultant

Stephen J. Thomas, 2007, 350 pp., ISBN: 978-0-8311-3332-0, \$52.95

Teacher's the skills required to improve their performance and Internal Consultant's Web of Change—a useful tool that will help individuals recognize their strengths and the areas that need improvement. Perfect for consultants who may not recognize the value of their efforts. It discusses the internal consultant's role and describes the various tasks in which they become engaged.



Maintenance Management Auditing:

In Search of Maintenance Management Excellence **

Anthony Kelly, 2006, 308 pp., ISBN: 978-0-8311-3267-5, \$57.95

Case studies demonstrate comprehensive audits of several weeks duration, to fingerprint audits taking a day or so, and benchmarking exercises. Industrial managers will be better able to audit their own maintenance departments, or specify such audits by external consultants.

**Sales limited to the United States and Canada

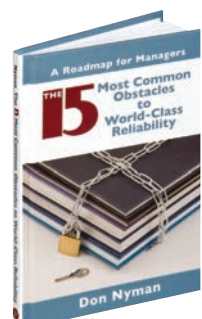


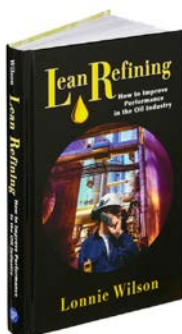
The 15 Most Common Obstacles to World-Class Reliability:

A Roadmap For Managers

Don Nyman, 2009, 125 pp., ISBN: 978-0-8311-3381-8, \$27.95

Reliability depends on shared understanding and beliefs. Managers at all levels must understand how their decisions and directions often adversely impact the ability of their organization to achieve and perpetuate reliability. This book identifies and explores 15 cultural obstacles commonly encountered by most organizations in their pursuit of world-class reliability.





Lean Refining: How to Improve Performance in the Oil Industry

Lonnie Wilson, 2017, 420 pp., ISBN: 978-0-8311-3612-3, \$64.95



Addresses the tremendous opportunities Lean can exploit to achieve huge financial gains, while simultaneously improving morale, timeliness, quality, safety, reliability, and environmental performance. The book offers numerous examples of how lean methodologies can be applied, and takes readers through a prescriptive process of implementation.



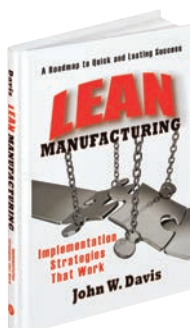
Handbook of Dimensional Measurement, Fifth Edition

Mark Curtis and Francis Farago

2013, 656 pp., ISBN: 978-0-8311-3465-5, \$84.95



This unique handbook is organized into chapters by gage type and function. Individual chapters move from simple to complex, as well as from timeless measurement techniques to modern and innovative methods. This work is the most comprehensive source for dimensional measurement information available.

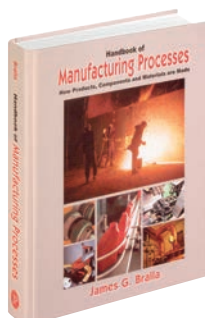


Lean Manufacturing: Implementation Strategies That Work

John W. Davis, 2005, 200 pp., ISBN: 978-0-8311-3385-6, \$44.95



Provides an implementable approach to inserting Lean in a manufacturing operation, pointing out the stumbling blocks and pitfalls to avoid. Section I addresses basic issues which serve to move the process forward. Section II details four levels of Lean Implementation and how progress can be measured. Section III deals with more advanced aspects.



Handbook of Manufacturing Processes: How Products, Components and Materials are Made

James G. Bralla, 2007, 864 pp., ISBN: 978-0-8311-3179-1, \$125.00



For anyone who needs to know about manufacturing operations and products. This in-depth compilation of the workings of more than 1,500 different manufacturing processes in metalworking, chemicals, textiles, plastics, ceramics, electronics, wood and food industries, includes fascinating information on more than 600 important products, components, and materials.

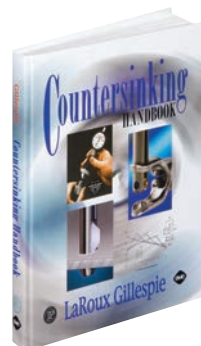
Countersinking Handbook*

LaRoux Gilliespie, 2008, 250 pp., ISBN: 978-0-8311-3318-4, \$79.95



Covers all issues related to countersinking and chamfering holes, including reasons for countersinking, the basics of different tool designs, cutter material variations and options, feeds, speeds and coolants, and optimizing tool holders and applications. It also describes side effects, optimum applications for specific tool use, gaging countersinks, economics, and press working.

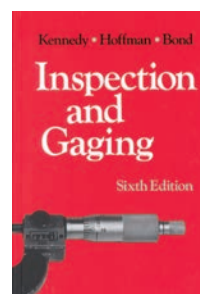
*Jointly published by SME and Industrial Press.



Inspection and Gaging, Sixth Edition

Clifford W. Kennedy, Edward G. Hoffman, and Steven D. Bond
1987, 654 pp., ISBN: 978-0-8311-1149-6, \$59.95

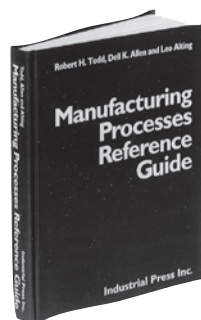
This comprehensive reference presents the many phases of inspection work and their applications to manufacturing operations. Analyzing the methods and duties of inspectors, it discusses a range of manual and automatic measuring devices along with their specific functions. Appropriate for inspection supervisors, plant managers, quality control engineers, and subcontractors.



Manufacturing Processes Reference Guide

Robert H. Todd, Dell K. Allen, and Leo Altng
1994, 512 pp., ISBN: 978-0-8311-3049-7, \$62.95

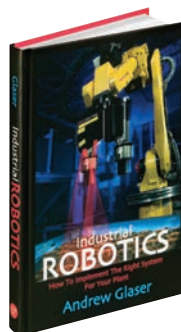
In collaboration with a consortium of industrial representatives from Black and Decker, Boeing, Caterpillar, General Motors, Grumman, Tektronix, Texas Instruments, Westinghouse, and Xerox, this book provides thorough descriptions of 126 of the most important processes available to industry. Each process is comprehensively illustrated, defined, and explained.

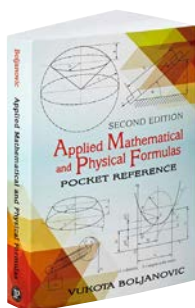


Industrial Robotics: How to Implement the Right System for Your Plant

Andrew Glaser, 2008, 250 pp., ISBN: 978-0-8311-3358-0, \$44.95

Identifying a manufacturing process that can be automated is often a daunting task. It requires a team approach to qualifying, validating, and then implementing a program. This book takes you through the best practices for each step, showing you how to achieve the system expectations that were planned for and benchmarked, and it helps identify the most common pitfalls.



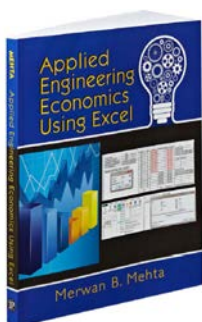


Applied Mathematical and Physical Formulas, Pocket Reference, Second Edition

Vukota Boljanovic, 2015, 480pp., ISBN: 978-0-8311-3592-8 \$32.95



Reviews the fundamentals of algebra, geometry, trigonometry, and analytical geometry and presents the application of differential equations and integral calculus. It reveals the comparative advantages of binomial distribution, standard distribution, Poisson distribution, and much more.

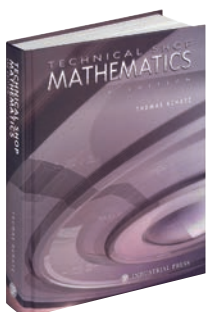


Applied Engineering Economics Using Excel

Merwan B. Mehta, 2015, 272pp., ISBN: 978-0-8311-3501-0, \$64.95



This must-have textbook applies an incremental learning method, starting with resolving personal financial matters and progressing to the complexities of engineering economic calculations. Ample practical examples and exercises with answers at the end of each chapter teach students to solve problems using Microsoft Excel without the need for calculus.

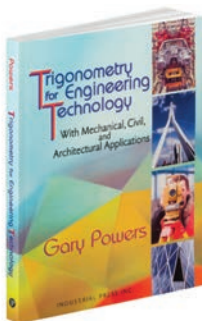


Technical Shop Mathematics, Third Edition

Achatz and Anderson, McKenzie, Contributing Editor
2006, 561 pp., ISBN: 978-0-8311-3086-2, \$54.95



The third edition of this book, a standard for decades, begins with arithmetic, basic mathematical calculations, geometry, elementary trigonometry, and graphing, and ends with fundamentals of Statistical Process Control for those interested in manufacturing and quality control. A solutions manual is available to instructors.



Trigonometry for Engineering Technology: With Mechanical, Civil, and Architectural Applications

Gary Powers, 2012, 282 pp., ISBN: 978-0-8311-3454-9, \$44.95



Uses mechanical, civil, and architectural applications to enhance its explanations of real-world scenarios. In addition to its treatment of right-angle trigonometry, the text includes oblique triangle calculations and graphing of trigonometric functions. Examples in each chapter are followed by practice exercises.

MATHEMATICS

45

Bestsellers by Stroud and Booth

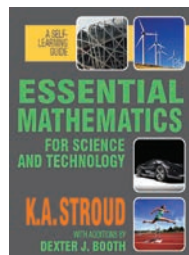
All Stroud and Booth titles limited to the United States, Canada, and U.S. Territories only.**

Essential Mathematics for Science and Technology**

K.A. Stroud and Dexter J. Booth

2009, 720 pp., ISBN: 978-0-8311-3391-7, \$69.95

This text teaches all the essential math needed for college-level science and technology. Using the pedagogical approach of the worldwide bestselling authors, it takes users through the math step-by-step with a wealth of examples and exercises. It is an appropriate refresher or brush-up for sci-tech students whose math skills need further development.

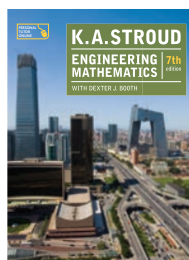


Engineering Mathematics, Seventh Edition**

K.A. Stroud and Dexter J. Booth

2013, 1,020 pp., ISBN: 978-0-8311-3470-9, \$74.95

A groundbreaking reference with over 500,000 copies sold, the seventh edition of *Engineering Mathematics* provides a broad mathematical survey, covers a full range of topics from the very basic to the advanced. Whether you're looking to improve your mathematical skills, or a student who needs an in-depth self-study guide, this work is sure to come in handy.



Advanced Engineering Mathematics, Fifth Edition**

K.A. Stroud and Dexter J. Booth

2011, 1,280 pp., ISBN: 978-0-8311-3449-5, \$79.95

Revised, expanded, and extremely comprehensive, this best-selling reference is almost like having your own personal tutor. With a step-by-step programmed approach that is complemented by hundreds of worked examples and exercises, this is an ideal book for professionals or students.



Stroud and Booth Advanced Math Series

Using the same innovative and proven approach that made the authors' *Engineering Mathematics* a worldwide bestseller, these books can be used in the classroom, or as self-study guides. The unique approach takes readers through mathematics in a step-by-step manner, with worked examples and exercises. Quizzes, Learning Outcomes, and Can You? Checklists reinforce learning and comprehension.

Linear Algebra**

K.A. Stroud and Dexter J. Booth

2008, 259 pp., ISBN: 978-0-8311-3188-3, \$42.95

Differential Equations**

K.A. Stroud and Dexter J. Booth

2005, 416 pp., ISBN: 978-0-8311-3187-6, \$42.95

Complex Variables**

K.A. Stroud and Dexter J. Booth

2007, 320 pp., ISBN: 978-0-8311-3266-8, \$42.95

Vector Analysis**

K.A. Stroud and Dexter J. Booth

2005, 448 pp., ISBN: 978-0-8311-3208-8, \$42.95

**Sales limited to the United States, Canada, and U.S. Territories.

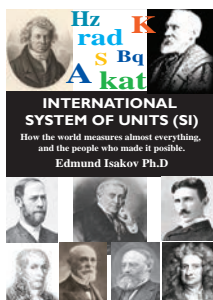


Grasshopper: Visual Scripting for Rhinoceros 3D

David Bachman, 2017, 250 pp., ISBN: 978-0-8311-3611-6, \$49.95



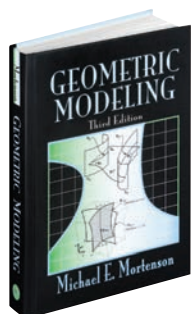
With Grasshopper users can build precise, customizable Rhino objects by simply dragging boxes around the screen and connecting them with virtual “wires.” This work provides an introduction to modeling objects with Grasshopper. Through a series of examples and tutorials, readers will learn how to build complex objects by combining simple components.



International System of Units (SI): How the world measures almost everything, and the people who made it possible

Edmund Isakov, 2013, 300 pp., ISBN: 978-0-8311-02319, \$24.95

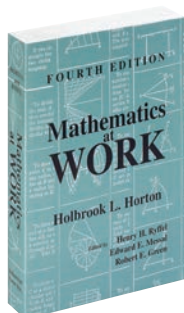
Provides detailed information on the metric system, its origin, history, and how the base and derived units were established. The book has four chapters: Measurement Systems, the International System of Units, Metrication in the United States, and United States Metric Association.



Geometric Modeling, Third Edition

Michael E. Mortenson, 2006, 452 pp., ISBN: 978-0-8311-3298-9, \$59.95

Geometric Modeling integrates the three important functions of geometric modeling: to represent elementary forms (curves, surfaces, and solids), shape and assemble these into complex forms, and determine geometric properties and relationships. Written for anyone in the field of geometric modeling, 3D modeling, computational geometry, computer graphics applications, and CAD/CAM.



Mathematics at Work, Fourth Edition

Holbrook L. Horton, Henry H. Ryffel, Edward Messal
1999, 656 pp., ISBN: 978-0-8311-3083-1, \$34.95

Readers solve a wide array of mathematical problems specifically related to mechanical work. Along with its unique compilation of mathematical problems, this book's usefulness as a guide for the mathematics of mechanical problems is unparalleled.

Metalworking Sink or Swim:

Tips and Tricks for Machinists, Welders, and Fabricators

Tom Lipton, 2009, 300 pp., ISBN: 978-0-8311-3362-7, \$49.95



This collection of priceless tips, tricks, skills, and experiences includes shop-tested descriptions and full-color illustrations of creative and unique skills and observations from a veteran with almost 40 years in the metalworking trades. The book also covers crossover skills like welding/machining, sheet metal/welding, and design management.

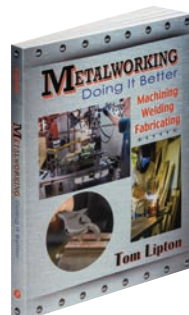


Metalworking—Doing It Better: Machining, Welding, Fabricating

Tom Lipton, 2013, 341 pp., ISBN: 978-0-8311-3476-1, \$34.95



Metalworking—Doing It Better draws on and adds to material found in Lipton's *Metalworking Sink or Swim*. This journeyman's collection of priceless tips and tricks will help any metalworker do better work and do it faster. It is an invaluable guide to both novice and veteran metalworkers.

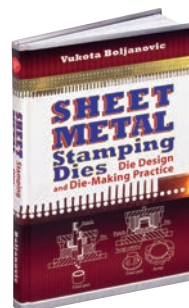


Sheet Metal Stamping Dies: Die Design and Die Making Practice

Vukota Boljanovic, 2012, 224 pp., ISBN: 978-0-8311-3463-1, \$44.95



This work presents information on press-working sheet metal, die design, and die manufacturing. It presents the knowledge and skills needed for the effective design of dies for sheet metal cutting, forming, and deep drawing operations. It is an invaluable resource for anyone looking for detailed information about die design and the manufacture of stamping dies.



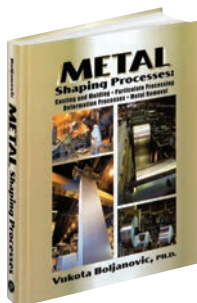
Metal Shaping Processes: Casting and Molding;

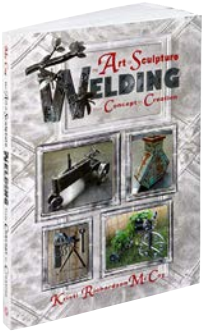
Particulate Processing; Deformation Processes; and Metal Removal

Vukota Boljanovic, 2009, 428 pp., ISBN: 978-0-8311-3380-1, \$64.95



Presents the fundamentals of metal-shaping processes with relevant applications, to assess the product design considerations, capabilities, limitations, and potential of the process. Chapters cover sheet metal bending, tube and pipe bending, deep drawing, stretch forming, spinning, rubber forming, superplastic forming, diffusion bonding, and high-energy-rate forming processes.



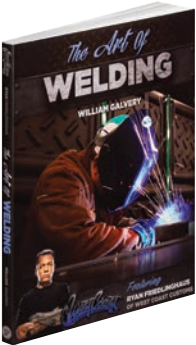


The Art of Sculpture Welding: From Concept to Creation

Kristi Richardson McCoy, 2015, 336 pp., ISBN: 978-0-8311-3516-4, \$32.95



This extraordinary book covers the processes of creating a range of projects, from pencils to vases to bicycles, for all skill levels and interests. It is specifically designed for students, beginning welders, hobbyists, and do-it-yourselfers. All plans include a list of materials, dimensions, plus commentaries about any special equipment necessary to complete the project.



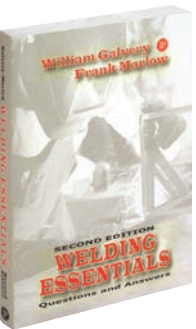
The Art of Welding

William Galvry and Ryan Friedlinghaus

2013, 272 pp., ISBN: 978-0-8311-3475-4, \$27.95



Ryan Friedlinghaus, the celebrated guru of automotive customization and cable TV star of *Inside West Coast Customs*, adds practical knowledge to William Galvry's acclaimed welding insight. This book provides complete, in-depth coverage of the equipment and techniques used in the most popular welding processes: oxyacetylene, stick welding, MIG welding, and TIG welding.



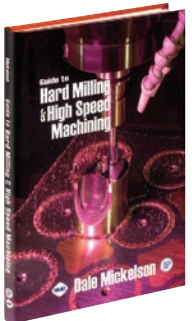
Welding Essentials: Questions and Answers, Second Edition

William Galvry and Frank Marlow

2007, 536 pp., ISBN: 978-0-8311-3301-6, \$44.95



This bestseller makes welding easy for beginners and is a handy reference for professionals. *Welding Essentials* addresses safety hazards and required precautions and provides solutions to common problems for each process. Additionally, this valuable reference explains step-by-step setup and shutdown procedures, along with why equipment grounding and GFIs are needed.



Guide to Hard Milling & High Speed Machining*

Dale Mickelson, 2006, 300 pp., ISBN: 978-0-8311-3319-1, \$59.95



This work details variables associated with the process of hard milling and high speed machining. Six machine manufacturers are covered—Mikron, Okuma, Yasda, Roku Roku, Johnford, and Moore—as well as two holder manufacturers, Heartech Precision and Big Kaiser, and one probe and laser manufacturer, Blum.

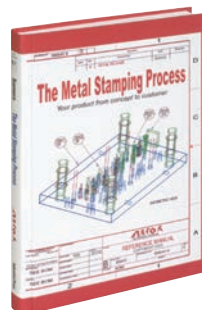
*Jointly Published by SME and Industrial Press.

The Metal Stamping Process

James Szumera, 2003, 224 pp., ISBN: 978-0-8311-3164-7, \$69.95



With this book, readers have immediate access to metalworking formulas, design standards, setup techniques, guidelines for designing and tolerancing parts, material choices, EDM, coatings, lubricants, problems and root causes, tooling tips, machine maintenance and mill standards. Also included is Pro-Quote, a simple-to-use Excel program for cost estimating.



Welding Fabrication and Repair: Questions and Answers

Frank Marlow, 2002, 320 pp., ISBN: 978-0-8311-3155-5, \$42.95



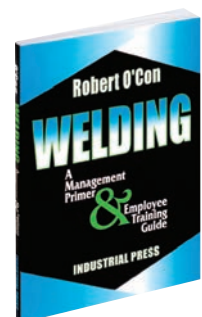
Provides in-depth coverage of the capabilities of oxygen and exothermic lances; flame bending, flame straightening, line heating and panel shrinking; industrial threaded fasteners; specialized welding clamps, fixtures, welding platens, cutting pyramids; and other solutions to common welding problems.



Welding: A Management Primer & Employee Training Guide

Robert O'Con, 2000, 208 pp., ISBN: 978-0-8311-3139-5, \$49.95

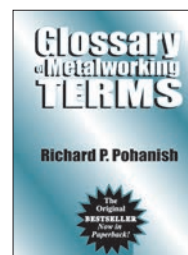
Aids those in welding management with supervision and control of their operations, while offering practitioners instruction on the basic manipulative welding and cutting processes. Section 1 presents the technical background and practical expertise needed to implement and manage specific welding operations. Section 2 includes a complete curriculum for self or in-plant welder training.

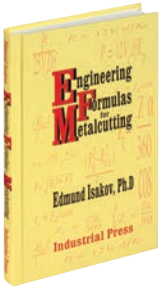


Glossary of Metalworking Terms

By Richard P. Pohanish, 2003, 384 pp., ISBN: 978-0-8311-3241-5, \$29.95

As the only modern glossary of terms related to the fabrication and use of metals and metallurgy, *Glossary of Metalworking Terms* covers more than 4,000 essential general and functional terms used in all areas related to metalworking and manufacturing technology. Coverage includes CNC and information on plastics.





Engineering Formulas for Metalcutting

Edmund Isakov, 2004, 208 pp, ISBN: 978-0-8311-3174-6, \$29.95



This book enables users to calculate speeds, feeds, and required machining power in order to maximize the productivity of cutting in both U.S. and metric units. Providing information on formulas and their applications, it describes mechanical properties of the most popular work materials, such as steels, cast irons, and nonferrous alloys.



Sheet Metal Forming Processes and Die Design, Second Edition

Vukota Boljanovic, 2014, 320 pp., ISBN: 978-0-8311-3492-1, \$64.95



A complete guide to sheet metal forming processes and die design, the most commonly used method for manufacturing aircraft, automobiles, and high-precision parts. It includes product analysis, as well as techniques for blanking, punching, bending, deep drawing, stretching, strip design, movement of metal during stamping, tooling, and material economy.



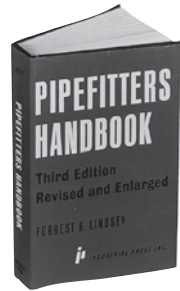
(See pages 14 -15 for complete book details.)

Pipefitters Handbook, Third Edition

Forrest R. Lindsey, 1967, 464 pp., ISBN: 0-8311-3019-0, \$29.95



This bestselling reference contains thousands of facts and figures relevant to pipefitters, steamfitters—anyone concerned with layout and installation of pipe. Providing answers to problems indigenous to power and industrial pipe bending and the fabrication of weld fittings, it categorizes material according to job description, supporting each working table with a clear example of how to use it.

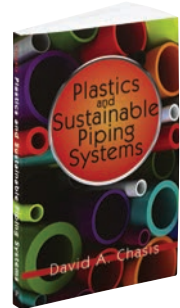


Plastics and Sustainable Piping Systems

David A. Chasis, 2014, 208 pp., ISBN: 978-0-8311-3498-3, \$44.95



Plastic piping is the preferred material in countless applications—municipal water and sewer lines, drain/waste/vent lines, and chemical waste drainage, to mention just a few—because plastics are durable, easy and safe to install, environmentally sound, and cost-effective. This unique resource describes products and markets served by thermoplastic piping systems.



Handbook of PVC Pipe Design and Construction, Fifth Edition

Uni-Bell PVC Pipe Association

2012, 600pp., ISBN: 978-0-8311-3450-1, \$64.95



Uni-Bell PVC Pipe Association's preeminent publication. This is the most comprehensive reference on PVC pipe and fittings. It provides practical engineering and construction information together with recommendations applicable to the design and use of PVC piping systems in both pressure and non-pressure applications.

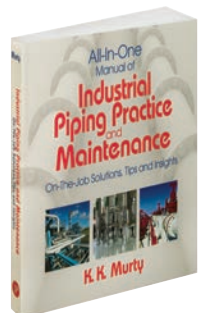


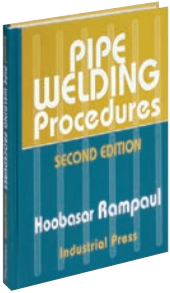
All-in-One Manual of Industrial Piping Practice and Maintenance: On-the-Job Solutions, Tips and Insights

K.K. Murty, 2010, 384 pp., ISBN: 978-0-8311-3414-3, \$54.95



This practical book offers complete coverage of piping practices and maintenance all in one place. Written by a professional with 35 years of hands-on experience in pipeline building, operating, and maintenance, this manual is designed to be kept at the ready, on the shop floor.

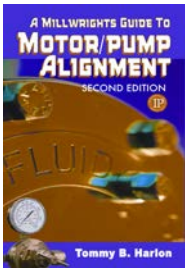


**Pipe Welding Procedures, Second Edition**

Hoobasar Rampaul, 2003, 256 pp., ISBN: 978-0-8311-3141-8, \$44.95



Describes in detail the manipulating procedures used to weld pipe joints. Readers will find useful information on heat input and distribution, essentials of shielded metal-arc technology, distortion, pipe welding defects, welding safety, essentials of welding metallurgy, and qualification of the welding procedure and the welder.

**A Millwright's Guide to Motor/Pump Alignment, Second Edition**

Tommy B. Harlon, 2008, 384 pp., ISBN: 978-0-8311-3315-3, \$34.95



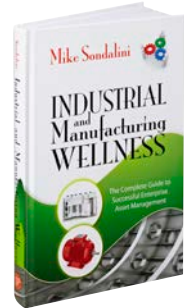
Written by a mechanic for mechanics, this book is a compendium of information, common sense tips, methods, and formulas that cover the field alignment problems encountered by most mechanics. It offers the "how-tos," drawings, formulas, and mathematical examples that address the who, what, when, where, why, and how in several dozens of realistic incidents involving alignment work.

Industrial and Manufacturing Wellness

Mike Sondalini, 2016, 312 pp., ISBN: 978-08311-3590-4, \$59.95



This title explains how to use Reliability Engineering principles to design and create companies that are robust, reliable, self-improving, integrated business systems best suited for getting maximum success. It goes beyond the plant to show a completely new way to engineer, design, and build business processes and work flow that deliver operational excellence to a company.

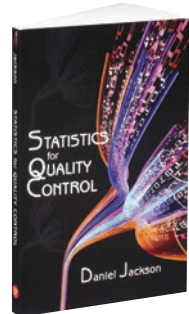


Statistics for Quality Control

Daniel Jackson, 2015, 350 pp., ISBN: 978-08311-3517-1, \$64.95



Covers beginning statistics needed to understand practices commonly found in industry, and discusses quality assurance issues and pertinent managerial practices. Designed for trade schools, corporate training programs, technical and community colleges, or freshman level university students beginning a major in quality and quality management.

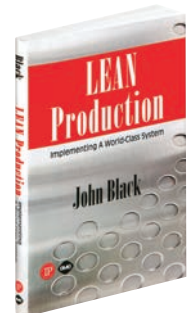


Lean Production: Implementing a World-Class System

John Black, 2008, 203 pp., ISBN: 978-0-8311-3351-1, \$49.95



Provides the strategy and tactics managers need to make lean work and move their organizations—whether manufacturing or service-based—toward a world-class production system. The author provides cases, anecdotes, examples, rationales, and concrete tools to help business leaders stop talking about lean production and actually make progress toward achieving it.



Lean Maintenance

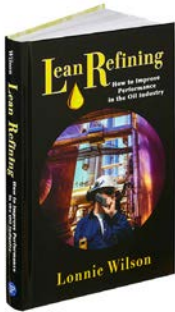
Joel Levitt, 2008, 272 pp., ISBN: 978-0-8311-3352-8, \$49.95



Lean Maintenance takes the reader on a journey from uncovering waste, to selling the projects, to management and delivering results. Every area in maintenance is covered. What's more, the user will be able to immediately use this book to start the process of saving money, energy, and time.



QUALITY CONTROL



Lean Refining: How to Improve Performance in the Oil Industry

Lonnie Wilson, 2017, 420 pp., ISBN: 978-0-8311-3612-3, \$64.95



Addresses the tremendous opportunities Lean can exploit to achieve huge financial gains, while simultaneously improving morale, timeliness, quality, safety, reliability, and environmental performance. The book offers numerous examples of how lean methodologies can be applied, and takes readers through a prescriptive process of implementation.



A New Strategy For Continuous Improvement **

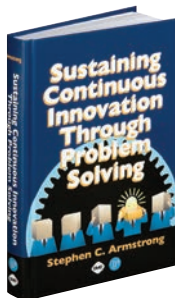
10 Steps To Lower Costs and Operational Excellence

Phillip Slater, 2006, 150 pp., ISBN: 978-0-8311-3320-7, \$44.95



This book details a proven, 10-step approach to cost reduction, and provides a series of tools to help achieve sustainable cost reduction while avoiding the damage of "slash and burn." It presents a new "Operations Improvement Cycle."

**Sales limited to the United States and Canada.



Sustaining Continuous Innovation Through Problem Solving*

Stephen C. Armstrong, 2007, 352 pp., ISBN: 978-0-8311-3275-0, \$59.95



This title demonstrates how problem solving and process management are at the heart of continuous business transformation. It introduces the reader to the domains of change and the process management body of knowledge (BOK) and gives detailed instruction on how to re-engineer processes, sustain innovation and continually improve an enterprise.

*Jointly Published by SME and Industrial Press.

Precisely Wrong: Why Conventional Planning Fails and How to Fix It



Carol Ptak and Chad Smith, 2017, 336 pp., ISBN: 978-0-8311-3618-5, \$54.95

This book reveals the fatal flaw in MRP and traces its impact to common situations encountered by planners and buyers. It gives companies insight into the most pervasive issue in the supply chain called the “bullwhip effect,” and provides solution to overcome this flaw. Readers gain an understanding about planning systems and corrections they can implement right away.



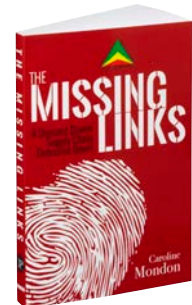
The Missing Links: A Demand Driven Supply Chain

Detective Novel



Caroline Mondon, 2016, 300 pp., ISBN: 978-0-8311-3607-9, \$34.95

A case study of a small factory with many problems—high work-in-progress inventory, poor working conditions, conflicts between two workshops, and long-standing customers leaving because of a decline in product quality. This book demonstrates the effectiveness of DDMRP. Half detective novel and half text, this unique work unveils supply chain recommendations while entertaining.



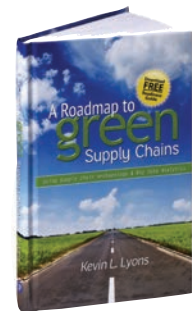
A Roadmap to Green Supply Chains:

Using Supply Chain Archaeology and Big Data Analytics



Kevin L. Lyons, 2015, 250 pp., ISBN: 978-08311-3514-0, \$69.95

This guide reveals the relationship between supply chains and sustainability. It shows supply chain professionals how to direct their purchasing power so that they source products that not only fill the needs of their organization, but also contribute to the health of the planet.

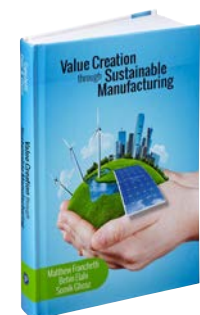


Value Creation through Sustainable Manufacturing

Matthew Franchetti, Behin Elahi, and Somik Ghose

2016, 350pp., ISBN: 978-0-8311-3521-8, \$69.95

Delves into sustainable manufacturing measures to enable companies to make more efficient use of their resources while considering environmental resource management and pollution prevention. It covers topics such as sustainable design, waste minimization, energy efficiency, sustainable sources, and green supply chain management, with challenges, costs, and values for each.



CNC Programming Techniques: An Insider's Guide to Effective Methods and Applications

Peter Smid, 2006, 448 pp., ISBN: 978-0-8311-9233-4, \$69.95

**Fundamentals of Forecasting Using Excel**

Kenneth D. Lawrence, Sheila M. Lawrence, and Ronald K. Klimberg

2008, 300 pp., ISBN: 978-0-8311-9206-8, \$34.95

Gas Engineers Handbook

C. George Segeler, 1965, 1,550 pp., Ebook ISBN: 978-0-8311-9242-6, \$105.00

Hazardous Chemicals Safety and Compliance Handbook for the Metalworking Industries

Richard P. Pohanish and Stanley A. Greene, 2006, 530 pp., Ebook ISBN: 978-0-8311-9245-7, \$79.95

Ingenious Mechanisms for Designers and Inventors

Volume I: Jones, 1930, 536 pp., ISBN: 978-0-8311-9249-5, \$37.95

Volume II: Jones, 1936, 538 pp., ISBN: 978-0-8311-9250-1, \$37.95

Volume III: Horton, 1951, 536 pp., ISBN: 978-0-8311-9251-8, \$37.95

Volume IV: Newell and Horton, 1977, 493 pp., ISBN: 978-0-8311-9252-5, \$37.95

The Little Black Book of Maintenance Excellence

Daniel T. Daley, 2008, 284 pp., Ebook ISBN: 978-0-8311-9211-2, \$24.95

Mass Finishing Handbook

LaRoux Gillespie, 2007, 526 pp., ISBN: 978-0-8311-9279-2, \$119.95

See our website for complete information on these titles:

Applied CATIA, V5 L. Scott Hansen, 2006, 450 pp., ISBN: 978-0-8311-3313-9, \$44.95

Basic Fixture Design Paul Campbell, ISBN: 978-0-8311-3052-7, \$39.95

Fuel Oil Manual, Fourth Edition Paul F. Schmidt, 1986, 240 pp., ISBN: 978-0-8311-1166-3, \$49.95

Learning & Applying Solid Edge V20 Step-by-Step

L. Scott Hasen, 2007, 500 pp., ISBN: 978-0-8311-3312-2, \$44.95

Gear Design Simplified, Third Edition Franklin D. Jones & Henry H. Ryffel, ISBN: 978-0-8311-1159-5, \$39.95

Manual of Gear Design (Revised) Horton & Buckingham, combined 3 vols., ISBN: 978-0-8311-3116-6, \$59.95

Metering Pump Handbook

Robert E. McCabe, Philop G. Lanckton, and William V. Dwyer, 1984, 280 pp., ISBN: 978-0-8311-1157-1, \$44.95

Practical Welding Technology Rudy Mohler, 1983, 220 pp., ISBN: 978-0-8311-1143-4, \$44.95

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36338	Contractor's Guide to PVC Water and Sewer Pipe Installation, Uni-Bell, NUCA	34.95	13

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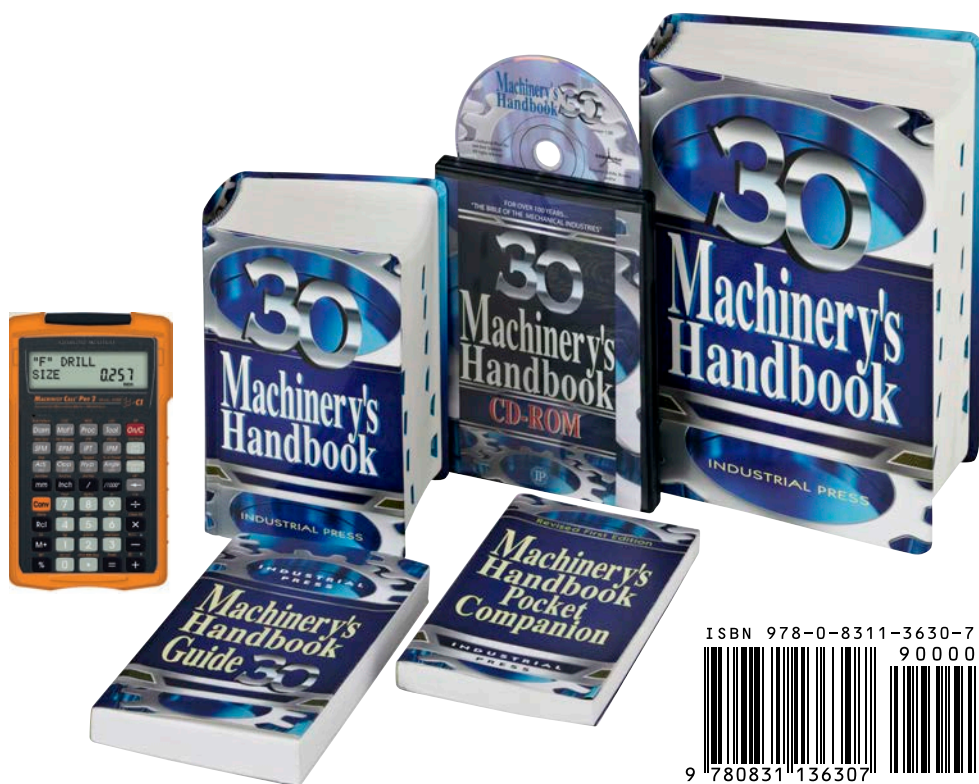
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