



Machine Tool Practices (9th Edition)

By Richard R. Kibbe, John E. Neely, Warren T. White, Roland O. Meyer

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This classic book features a richly illustrated, intensely visual treatment of basic machine tool technology and related subjects, including measurement and tools, reading drawings, mechanical hardware, hand tools, metallurgy, and the essentials of CNC. Covering introductory through advanced topics, *Machine Tool Practices* is formatted so that it may be used in a traditional lab-lecture program or a self-paced program. The book is divided into major sections that contain many instructional units. Each unit contains listed objectives, self tests with answers, and boxed material covering shop tips, safety, and new technologies. In this updated edition there are over 600 new photos and 1,500 revised line drawings!

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Editorial Review

From the Back Cover

“*Machine Tool Practices, 9e*, effectively provides a concise overview of machine tools and related methods and practices that are found in a number of different industry types that utilize various machining processes. The style of writing and illustrating, combined with the authors’ practical experience and knowledge, has yielded a text that can be read and understood by engineers and technicians alike.”

Murray Therrell, Industrial Mechanical Systems Instructor, Arkansas Northeastern College

The Definitive Text!

For over 30 years, *Machine Tool Practice, 9e*, has served as the definitive text to successfully train computer numerical controllers (CNC) and conventional machine operators, general machinists, and tool and die makers. The book lends itself well to classes that take a combined lecture/laboratory approach, as well as those using it in a self-paced environment.

With over 1500 line drawings and 600 new photographs, *Machine Tool Practices, 9e*, is the best illustrated book in this field. The text emphasizes practical knowledge shop and machine tool technology throughout. The text superbly illustrates the tools, equipment and techniques that students are most likely to encounter in an actual industrial machine shop environment.

New to this Edition

Updated to reflect the very latest trends and technology in the machine tool field, the art program in this ninth edition has been completely modernized to reflect the real world environment. In addition, this edition has been accuracy checked and also features:

- Expanded CNC content
- Additional CAM coverage
- A new self-test question set in each chapter
- A list of useful websites at the end of appropriate units that refer the reader to state of the art information on cutting tools and machine shop equipment

“This book has been the standard for my 30 years experience both as machinist and machining instructor- a proven benchmark as an excellent comprehensive text. This new edition keeps up with new advances in machining and related fields while still providing the solid core of fundamental knowledge, building upon it in a very logical manner”

Richard Granlund, Faculty-Machine Tool, Hennepin Technical College, Brooklyn Park, Minnesota

“As the field of machining is constantly changing, a current textbook is critical. [This author team] takes extra care to make this happen.” **William Julien, Assistant Professor, Civil, Construction, Industrial and Mechanical Technologies, Hudson Valley Community College**

About the Author

Richard R. Kibbe served his apprenticeship in the shipbuilding industry and was graduated as a journeyman marine machinist. He holds an Associate in Arts degree in applied arts from Yuba Community College with an emphasis in machine tool technology. He also holds Bachelor's and Master's degrees from the California State University with an emphasis in machine tool manufacturing technology.

Mr. Kibbe has considerable job machine shop experience as well as community college and industrial teaching experience and is the author and co-author of several publications in the chain tool manufacturing field.

Roland O. Meyer spent the first 20 years of his career in the metal-working industry as a tool and die maker, machinist and worked in machine design and manufacturing. He completed his apprenticeship as a tool and die maker at Siemens in Germany and continued there as a journeyman building progressive punching dies.

He then worked in die shops in Toronto and Windsor, Canada before moving to Chicago employed as a gage maker at Ford Motor Company. Following this stint, he was in charge of the US army machine shops in Korea and Italy for five years. When he returned to the US, he worked in a manufacturing company designing and building experimental machines used in the timber and plywood industry. He next entered academia and became the lead instructor at Lane Community College's Manufacturing Technology program in Eugene, Oregon, where he taught for 25 years. As CNC became the new method in machining, he developed a CNC curriculum and program. When CAM (Computer Aided Machining) became available he also developed a state of the art CAM program with the assistance of a local software company.

John E. Neely grew up in the Pacific Northwest and entered the Army to serve in World War II. The life John E. Neely is characterized by hard work, a variety of successes, and mentoring many others who became a part of his life.

Over the years Mr. Neely provided himself with a broad education and professional training through reading, a correspondence course in mechanical engineering, and good use of opportunities throughout his career. He became a master machinist, a mechanical engineer, a hydraulic engineer, and eventually an instructor at Lane Community College in Eugene, Oregon.

During his time as instructor he collaborated with others to develop highly successful course materials based on the individualized instruction approach. He and his collaborators wrote and had published several textbooks based on those materials. Those books continue to be in use nationally and internationally. After the death of his wife, he moved to Colorado Springs, Colorado, in April 2000 to be with his son and his family. There, for the three years until his death, he enjoyed the company of family and friends.

Warren White apprenticed as an Optical Instrument Maker with Land-Air, Inc. After military service with the Army Air Defense Board he obtained a graduate degree in Psychology at Clark University. His interest in both learning theory and machine tools led to employment at Foothill College in the Engineering Department.

Warren White initiated the Machine Tool Technology program at De Anza College after an extensive survey of Silicon Valley manufacturing firms. He was the Director of a California State-funded program to develop an Individualized Machinist Curriculum in conjunction with several California Community Colleges and Lane Community College in Oregon. He also initiated the California Community Colleges'

Multimediamobile which operated between several California Community Colleges to develop individualized instructional media in several technical disciplines.

He was the lead author and editor for *Machine Tools and Machining Practices Volumes I and II* published by John Wiley and Sons. He later taught Industrial Engineering classes at San Jose State University. He is certified by the Society of Manufacturing Engineers as a Manufacturing Engineer. After retiring from teaching he did voluntary Assistive Technology work with the Easter Seal Society in Santa Cruz, California, in a special program sponsored by IBM. He returned to work as a Quality Engineer for Seagate Technology, and obtained certification as a Quality Auditor. He started Seagate Technology on the path to achieving ISO 9001 certification.

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