



Machine Tool Practices (7th Edition)

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

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This timely book covers the core subject areas essential toward building a basic foundation required to effectively work in the machining area of today's manufacturing technology. Each section begins with an introductory overview, followed by easy-to-read instructional units designed around specific projects that accurately reflect the state of the art in industrial machine shop environments. The book also includes an introduction to all common manual machine tool operations, with an introduction to computer numerical control operations. For budding computer numerical control (CNC) and conventional machine operators, general machinists or tool and die makers.

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Editorial Review

From the Back Cover

This new edition of a classic covers manual and computer-based machine tool operations. The authors have retained the helpful step-by-step approach using photo sequences to illustrate technical procedures.

Key features of this new edition:

- All new illustrations offer clear and up-to-date visual enhancement to the text.
- Coverage of computer numerical control (CNC) has been revised and enhanced with more material specific to industry standard conventional code programming patterned after common industry formats.
- Each section begins with an introductory overview followed by instructional units reflecting state-of-the-art machine shop practice.
- Graphic illustrations highlight important concepts and warn of common errors and difficulties.
- Many units are designed around specific projects that provide an immediate application experience for the reader.
- Special features—Shop Tips, Safety Tips, New Technology, Career Information—add reader interest and understanding.
- Background trigonometry concepts—deemed essential for complete understanding—now appear at appropriate places throughout the book.
- Processes no longer commonly used in the field have been removed.

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The major objective of this edition, like that of previous editions, is to provide a current and richly illustrated text for those students training to become computer numerical control (CNC) and conventional machine operators, general machinists, or tool and die makers, either through apprenticeship training or community college and vocational programs. The content deals with topics usually presented in a combined lecture/laboratory program. However, the text is designed such that it may also be used in a self-paced instructional environment.

The authors fully realize that the field of machine tools and machining practices has changed greatly over the past few years. Many of the classical processes heretofore considered to be an important component of machinist training are no longer taught or even done in manufacturing, especially in the age of CNC. However, we feel that the content of this edition continues to verbalize and illustrate the major core subject areas of the machinist's education, even though the major thrust of a student's employment may be more oriented toward CNC production machine operation than toward the more general job shop or prototype manufacturing environment.

No matter what directions the field of machine tools and machining practices may take in future years, we remain steadfast in our belief that the content of this edition is both timely and essential to the basic foundation that a student needs to participate effectively in the machining area of manufacturing technology.

To better meet the needs of users of this book, the authors have made a careful study of the entire contents. Many users of previous editions were consulted and their comments incorporated so that this seventh edition could be updated to meet the present-day needs of students and instructors, and current industry training

standards. Following are some of the special features included in this textbook:

- * Each section begins with an introductory over-view, followed by instructional units with clearly stated objectives. Instructional units in each section contain easy-to-read information and instructions that accurately reflect the state of the art in industrial machine shop environments.
- * The book is illustrated extensively with many photographs of actual machining operations. We have also taken several major steps in this new edition to improve the quality of the art throughout the text.
- * Graphic explanations are used to highlight important concepts and common errors and difficulties encountered by machinists.
- * Many units are designed around specific projects that provide much of the performance experience for the student. The structure of the book makes it easy for instructors to insert projects that are more applicable to specific individual programs.
- * Self-tests at the end of most units enable students to evaluate their own progress and understanding of the text material. Self-test answers are given in Appendix 1.

Additions and new features in the seventh edition include:

- * New and updated illustrations are included where appropriate.
- * The seventh edition reflects the ever-increasing importance of CNC. This section has been extensively revised and now contains much more material specific to industry-standard conventional code CNC programming, patterned after the most common numerical control formats presently used in the industry. The section has also been reorganized in order to present a more logical topic development. Many new drawings and more detailed explanations of specific programming sequences have been included. Although the coverage is not intended to be as extensive as a dedicated text on CNC, we feel that it is sufficient to give the student a solid start in learning the basics of this popular and growing technology.
- * Shop tips, safety tips, career tips, and new or developing technology are emphasized in color boxes throughout the text. The shop tips are designed to emphasize tricks of the trade and shortcuts that can be invaluable during a student's training. Safety tips emphasize shop and machine safety considerations. New technology and career tips are designed to stimulate a student's interest to pursue further information on the subject.
- * Applications of trigonometry now appear in the text at appropriate points.

Although we have updated this edition to reflect current machining technology, we have preserved essential classical machine shop practice while deleting that which is truly not relevant or no longer used. We believe that the standard machine shop practices that make up the bulk of this edition are still very relevant to the machining technology field, even in this age of high-technology, computer-supported manufacturing. Students of modern machining technology will still require solid backgrounds in standard practice if they are to understand and appreciate computer-controlled and computer-supported machining as well as other high-technology manufacturing processes.

The following materials are available to supplement the textbook:

- * An Instructor's Manual containing suggestions on how to use the textbook for conventional and competency-based education, post-tests, and answer keys. The post-tests can be freely reproduced by users of the book. All Instructor's Manual tests have been edited and reformatted so that test questions more closely correspond to the specific text passages.
- * A workbook titled Workbook for Machine Tool Practices. This adjunct publication plays an extremely

important part in maximizing use of the book. The workbook contains process worksheets with projects, alternative projects, and additional tables. These features are keyed to the text material and thus greatly enhance the use of the book as a complete instructional system.

The workbook is project oriented and not just a series of exercises in which the student has no real vested interest. The projects, when completed, are all useful devices and as such, help to motivate students. The workbook, together with Machine Tool Practices, provides an orderly, efficient, and complete teaching system that is quite flexible and easy to set up and use for any machine technology training program. Use of the student workbook is highly recommended. Richard R. Kibbe

John E. Neely

Roland O. Meyer

Warren T. White

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Richard R. Kibbe
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Warren T. White

Users Review

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