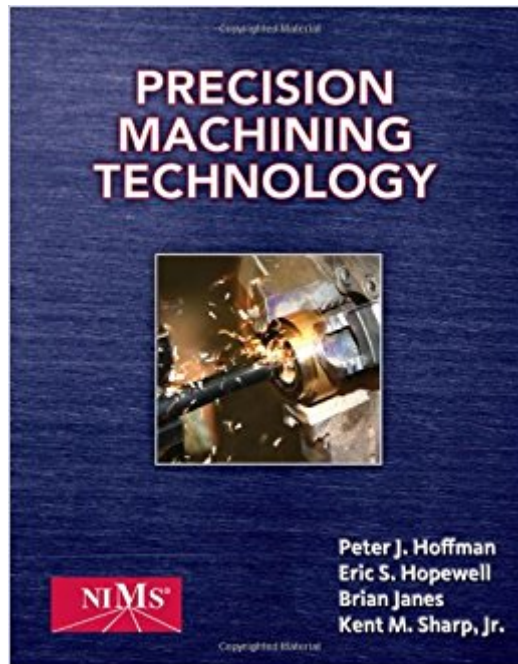


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# Precision Machining Technology



## Synopsis

PRECISION MACHINING TECHNOLOGY has been carefully written to align with the National Institute of Metalworking Skills (NIMS) Machining Level I Standard and to support achievement of NIMS credentials. This new text carries NIMS' exclusive endorsement and recommendation for use in NIMS-accredited Machining Level I Programs. It's the ideal way to introduce students to the excitement of today's machine tool industry and provide a solid understanding of fundamental and intermediate machining skills needed for successful 21st Century careers. With an emphasis on safety throughout, PRECISION MACHINING TECHNOLOGY offers a fresh view of the role of modern machining in today's economic environment. The text covers such topics as the basics of hand tools, job planning, benchwork, layout operations, drill press, milling and grinding processes, and CNC. The companion Workbook/Shop Manual contains helpful review material to ensure that readers have mastered key concepts and provides guided practice operations and projects on a wide range of machine tools that will enhance their NIMS credentialing success.

## Book Information

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Introduction to Safety. 2. Measurement Systems and Machine Tool Math Overview. 3.

Semi-Precision Measurement. 4. Precision Measurement. 5. Quality Assurance, Process Planning, & Quality Control. 6. Metal Composition and Classification. 7. Heat Treatment of Metals. 8.

Maintenance, Lubrication, and Cutting Fluid Overview. SECTION 3: JOB PLANNING, BENCHWORK, AND LAYOUT. 1. Understanding Drawings. 2. Layout. 3. Hand Tools (Safety Integration). 4. Saws and Cut-Off Machine. 5. Offhand Grinding. 6. Drilling, Treading, Tapping and Reaming. SECTION 4: DRILL PRESS. 1. Introduction to the Drill Press 2. Tools, Toolholding, and Workholding for the Drill Press 3. Drill Press Operation. SECTION 5: TURNING. 1. Introduction to the Lathe. 2. Workholding and Toolholding Devices for the Lathe. 3. Machining Operations on the Lathe. 4. Manual Lathe Threading. 5. Taper Turning. SECTION 6: MILLING. 1. Introduction to the Vertical Milling Machine. 2. Tools, Toolholding, and Workholding for the Vertical Milling Machine. 3. Vertical Milling Machine Operations. 4. Indexing and Rotary Table Operations. SECTION 7: GRINDING. 1. Introduction to Precision Grinding Machines. 2. Grinding Wheels for Precision Grinding. 3. Surface Grinding Operations. SECTION 8: COMPUTER NUMERICAL CONTROL. 1. CNC Basics. 2. Introduction to CNC Turning. 3. CNC Turning: Programming. 4. CNC Turning: Set-up and Operation. 5. Introduction to CNC Milling. 6. CNC Milling: Programming. 7. CNC Milling: Set-up and Operation. 8. Computer Aided Design and Computer Aided Machining. --This text refers to an out of print or unavailable edition of this title.

Peter J. Hoffman teaches at Berks Career and Technology Center West in Leesport, Pennsylvania. He has an Associate in Applied Sciences Degree in Machine Tool Technology from the Pennsylvania College of Technology, Vocational Education Level II certification from Temple University, and National Institute for Metalworking Skills (NIMS) Level II certifications. Eric S. Hopewill teaches at Berks Career and Technology Center West in Leesport, Pennsylvania. He has an Associate in Applied Sciences Degree in Tool Technology from the Pennsylvania College of Technology and a Bachelor of Science Degree in Business Administration from Albright College. Mr. Hopewell also has National Institute for Metalworking Skills (NIMS) Machining Level I certifications. Brian Janes teaches at Bowling Green Technical College in Bowling Green, Kentucky. He has an Associate in Science Degree from Vincennes University, a Bachelor of Science Degree from Western Kentucky University, and a Master of Science Degree from Murray State University. Mr. Janes also has National Institute for Metalworking Skills (NIMS) Machining Level I certifications. Kent M. Sharp, Jr. teaches at Radford High School in Radford, Virginia. He has an Associate Degree in Science from New River Community College and a Bachelor of Science Degree and a Master of Science Degree from Radford University. Mr. Sharp also has National Institute for Metalworking Skills (NIMS) Level I certifications.

This book was required for my introductory precision machining class at community college. I liked it a lot! The course instructor structured his lectures to follow the text closely and it was a very effective learning experience. The book is pretty hefty and expensive, but it does an excellent job of introducing and explaining the key features of manual machining machines, tooling, and processes. It has lots of pictures and illustrations, and when it discusses a particular machine or tool, it is almost always pictured. While not quite a "coffee table book" this book is heavy on pictures and provides just the right amount of clear text to explain the essential concepts and facts. The book contains a good glossary and index, which were very helpful for "open book" exams. Experienced or advanced machinists might find this book to be lacking in technical detail or explanations of more sophisticated or exotic machining, but for the student, or self-educating beginner machinist, or hobbyist machinist, this is an excellent resource.

This is a great resource for those starting out, and a great reference book for those who think they know everything.

Great book for someone new to machining.

For anyone that's either a manufacturing student or wanting to start out as a hobby machinist, I would strongly recommend this book. Contains a lot of really important fundamentals and explains them in a way that's easy to understand.

Our instructors have used this text for several years and feel it is useful to teach the principles of machining. The level of instruction is post-secondary, machining apprenticeship.

Exactly what we were needing for our Manufacturing Classes at our high school. This book will be the means for our students to get their information.

If you plan on taking a machining course this book is a good tool to have. It goes into every little detail in all areas of machining not leaving a single thing uncovered.

Needed it for my machining class, great price! I have to say I love textbooks that are hardcovers, they hold up much better and they last longer. I was impressed by the great shape this book was in for the price!

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