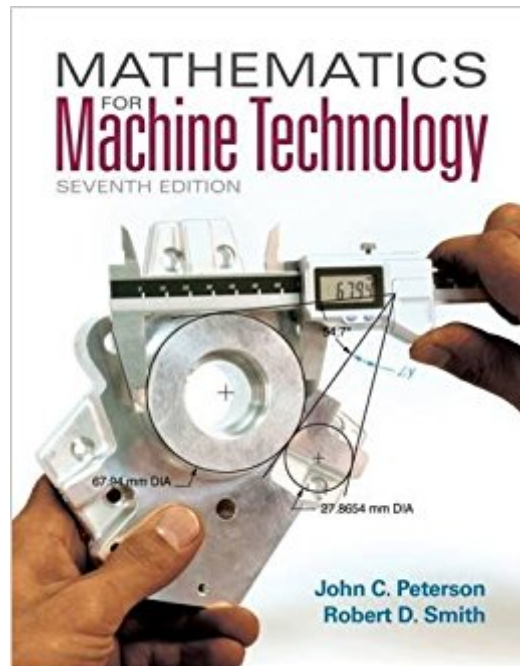




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# Mathematics For Machine Technology



## Synopsis

Reflecting the latest technology and tools of the trade, **MATHEMATICS FOR MACHINE TECHNOLOGY**, 7e provides the mathematical skills and practice that students and apprentices will use on the job in the machine trades and manufacturing fields. This comprehensive book combines math concepts with relevant machine applications through industry-specific examples, realistic illustrations, and actual machine applications. Problems and examples progress from simpler to more complex, from general math to trigonometry and solid geometry, and relate directly to how the math is used in machine trades and manufacturing fields. The new Seventh Edition also includes all-new units on electronic calipers, height gages, and electronic micrometers, as well as thorough coverage of measuring in both metric and customary systems.

## Book Information

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With The Metric System. Text covers measuring with metric calipers and height gages and micrometers, ensuring you have a solid understanding of the metric system, including converting within the metric system, converting between the customary and metric systems, and using metric measuring instruments. **Build On What You Know.** Most sets of exercises begin with six **'Tooling Up'** exercises that use concepts from earlier units. These hands-on applications help you retain ideas from previous sections and continue to build on your knowledge.

**Realistic Experience For Industry Requirements.** The text emphasizes an analytical approach that is necessary in translating engineering drawing dimensions to machine-working dimensions.

**Preparing For Real-World Practice.** The text provides thorough coverage of the emerging electronic and digital tools, while also retaining instructions for using analog tools.

John C. Peterson is a retired Professor of Mathematics at Chattanooga State Technical Community College, Chattanooga, Tennessee, where he received the Teaching Excellence Award. His professional experience includes teaching at middle school, high school, and university levels, as well as work in the automotive industry. In addition to MATH FOR THE TECHNICAL TRADE, 6th Edition, Dr. Peterson authored or coauthored four other Cengage books: Introductory Technical Mathematics, Technical Mathematics, Technical Mathematics with Calculus, and Mathematics for Machine Technology. A member of the team that revised the 2015 College Board of Mathematical Sciences cross-sectional survey of undergraduate mathematical science programs, Dr. Peterson has also served as a vice president of The American Mathematical Association of Two-Year Colleges. He has published more than 90 journal papers and given more than 200 presentations. Dr. Peterson earned his PhD in Mathematics Education from The Ohio State University.

Robert D. Smith was Associate Professor Emeritus of Industrial Technology at Central Connecticut State University, New Britain, Connecticut. Mr. Smith has had experience in the manufacturing industry as tool designer, quality control engineer, and chief manufacturing engineer. He has also been active in teaching applied mathematics, physics, and industrial materials and processes on the secondary school level and in apprenticeship programs. He is the author of Delmar Cengage Learning's Mathematics for Machine Technology.

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