



# CNC Programming: Principles and Applications

*By Mike Mattson*

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A proven guide to computer-aided machining, CNC Programming: Principles and Applications has been revised to give readers the most up-to-date information on G- and M- code programming available today. This edition retains the book's comprehensive yet concise approach, offering an overview of the entire manufacturing process, from planning through code writing and setup. The new edition includes expanded coverage of tooling, manufacturing processes, print reading, quality control, and precision measurement. Designed to meet the needs of both beginning machinists and seasoned machinists making the transition to the abstract realm of CNC, this book is a valuable resource that will be referred to again and again.

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## **CNC Programming: Principles and Applications** By Mike Mattson Bibliography

- Sales Rank: #544137 in Books
- Published on: 2009-03-31
- Original language: English
- Number of items: 1
- Dimensions: 11.50" h x 8.75" w x .75" l, 2.45 pounds
- Binding: Hardcover
- 432 pages

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## **Editorial Review**

### Review

Preface. 1. Computer Numerical Control of Machine Tools. 2. Measurement and Quality. 3. The NC Programming Process. 4. NC Tooling and Machining Processes. 5. Tool and Workpiece set-up. 6. Programming Concepts and Job Planning. 7. Codes for Positioning and Milling. 8. Basic Codes to Control Machine Functions. 9. Hole Making Cycles. 10. Tool Radius Compensation. 11. Advanced Programming Concepts. 12. Lathe Programming. 13. CAD/CAM. 14. Mathematics for NC Programming. Appendix A G & M Codes Reference. Appendix B Reference Information. Glossary.

### About the Author

Michael W. Mattson is Michael W. Mattson is chairman of the Department of Manufacturing Technology at Clackamas Community College, Oregon City, Oregon. He is actively involved in training high school teachers in CNC programming and has completed the summer training intensive with Project Lead the Way.

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