



# CNC Handbook (Mechanical Engineering)

*By Hans Kief, Helmut Roschiwal*

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## **Practical CNC design, construction, and operation techniques**

Gain a thorough understanding of computerbased numerical control systems, components, and technologies. Featuring hundreds of color images and schematic diagrams, *CNC Handbook* explains machining fundamentals and shows you how to build and safely operate fully automated, technically sophisticated mechatronic equipment. Learn how to work with position controllers, accomplish rapid and precise machine motions, use CAD and CAM systems, and integrate CNC into IT networks. The latest CNC programming languages, flexible manufacturing systems, and troubleshooting methods are also discussed in this hands-on guide.

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- Open- and closed-loop control systems
- Programmable logic controllers and switches
- Machine tools and machining centers
- Turning, milling, and grinding equipment
- Industrial robots and robot controllers
- Additive and flexible manufacturing systems
- Direct and distributed numerical control
- CNC programming platforms and languages
- Close-to-process production measurement

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### **Editorial Review**

#### **About the Author**

**Hans B. Kief** is acknowledged as one of the world's leading experts in the field of CNC manufacturing and computer controlled flexible manufacturing systems (FMS). He has worked as a consultant and in the industry, having developed CNC reliability software for the aircraft and automobile industries, and has traveled widely in his professional capacity through the United States and Europe. Hans has a degree in electrical engineering, founded the German NC Society, and is a member of the American Society of Manufacturing Engineers (SME), the Computer Aided Systems Association (CASA), and the American NC Society.

**Helmut A. Roschiwal** began his career as an apprentice to a toolmaker and went on to earn his mechanical engineering degree and start his own mechanical engineering product development company with several subsidiaries in Germany and Romania. Helmut is now retired.

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