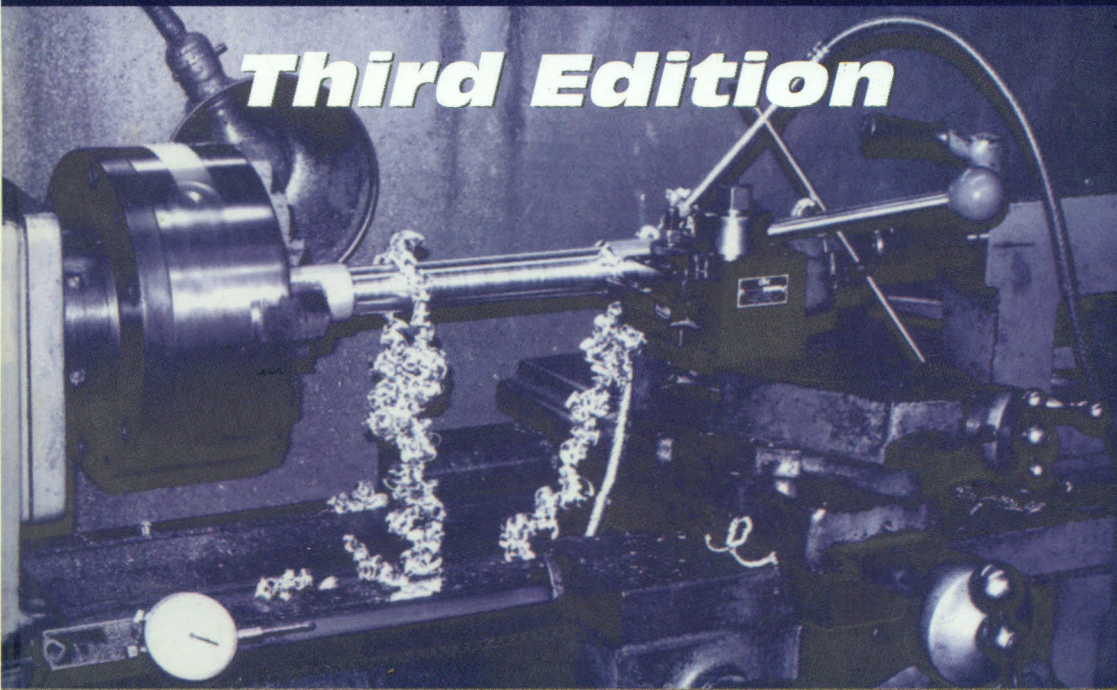


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# Fundamentals of Machining and Machine Tools

*Third Edition*



*Geoffrey Boothroyd*  
*Winston A. Knight*

Special Indian  
Edition

BOO:L

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## Manufacturing and Industrial Engineering

In the more than 15 years since the second edition of **Fundamentals of Machining and Machine Tools** was published, the industry has seen many changes. Engineers must keep up with developments in analytical modeling of machining processes, modern cutting tool materials, and how these changes affect the economics of machining. With coverage reflecting state-of-the-art industry practice, **Fundamentals of Machining and Machine Tools, Third Edition** emphasizes underlying concepts, analytical methods, and economic considerations.

This book thoroughly illustrates the causes of various phenomena and their effects on machining practice. The authors include several descriptions of modern analytical methods, outlining the strengths and weaknesses of the various modeling approaches.

### What's New in the Third Edition?

- Recent advances in super-hard cutting tool materials, tool geometries, and surface coatings
- Advances in high-speed machining and hard machining
- New trends in cutting fluid applications, including dry and minimum-quantity lubrication machining
- New developments in tool geometries for chip breaking and chip control
- Improvements in cost modeling of machining processes, including application to grinding processes.

Supplying abundant examples, illustrations, and exercises, **Fundamentals of Machining and Machine Tools, Third Edition** is a necessity for anyone involved in metal cutting, machining, machine tool technology, machining applications, and manufacturing processes.

### Features

- Provides comprehensive coverage of the factors that influence the economics of machining operations
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