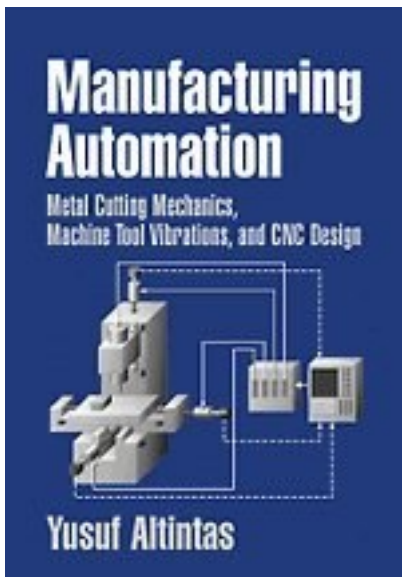# Manufacturing Automation

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著者:Altintas, Yusuf

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Metal cutting is one of the most widely used methods of producing the final shape of manufactured products. First published in 2000, this book treats the scientific principles of metal cutting and their practical application to solving problems encountered in manufacturing. The subjects of mathematics, physics, computers, software, and instrumentation are discussed as integration tools in analyzing or designing machine tools and manufacturing processes. The book begins with the fundamentals of metal cutting mechanics. A special feature is the in-depth coverage of chatter vibrations, a problem experienced daily by practising manufacturing engineers. The essential topics of programming, design, and automation of CNC (computer numerical control) machine tools; NC (numerical control) programming; and CAD/CAM technology are fully discussed. Each chapter includes examples drawn from industry, design projects, and homework problems. Advanced undergraduate and graduate students, as well as practising engineers, will find this book a clear and thorough way

to learn the engineering principles of metal cutting mechanics, CNC system design, and CAD/CAM technology.

作者介绍:

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