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This Third Edition of the Machining Data Handbook is an extensive revision of the Second Edition. Machining data are presented for additional operations and alloys and for technologies not covered in the Second Edition. Machining recommendations are tabulated in both English and Metric units. The purpose of this edition remains the same as the second, namely, to provide starting recommendations for important machining situations in an effort to help all types of personnel associated in one way or another with material removal processes. Experience with the previous edition has shown that as a condensed and integrated source of machining information it is useful to manufacturing engineers, manufacturing managers, process engineers, industrial engineers, methods engineers, production planners, time study departments, estimators, machine shop supervisors, machine tool operators, NC programmers, tool designers, engineering personnel, research technicians and purchasing agents. The data were collected from many industry sources and from an extensive search of the technical literature. Data were then evaluated by technical personnel in order to provide realistic machining parameters for general application in large and small shops. While every reasonable attempt was made to obtain reliable data, many data gaps were found which necessitated the careful exercise of engineering judgment in order to fill them.

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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. Students 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, requiring only basic mathematics and physics. 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 homework problems, *Fundamentals of Machining and Machine Tools, Third Edition* is an ideal textbook for senior undergraduate and graduate students studying metal cutting, machining, machine tool technology, machining applications, and manufacturing processes.

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