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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

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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.

New edition (previous, 1975) of a textbook for a college-level course in the principles of machine tools and metal machining. Math demands are limited to introductory calculus and that encountered in basic statics and dynamics. Topics include: operations, mechanics of cutting, temperature, tool life

The Book Is Intended To Serve As A Textbook For The Final And Pre-Final Year B.Tech. Students Of Mechanical, Production, Aeronautical And Textile Engineering Disciplines. It Can Be Used Either For A One Or A Two Semester Course. The Book Covers The Main Areas Of Interest In Metal Machining Technology Namely Machining Processes, Machine Tools, Metal Cutting Theory And Cutting Tools. Modern Developments Such As Numerical Control, Computer-Aided Manufacture And Non-Conventional Processes Have Also Been Treated. Separate Chapters Have Been Devoted



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To The Important Topics Of Machine Tool Vibration, Surface Integrity And Machining Economics. Data On Recommended Cutting Speeds, Feeds And Tool Geometry For Various Operations Has Been Incorporated For Reference By The Practising Engineer. Salient Features Of Second Edition \* Two New Chapters Have Been Added On Nc And Cnc Machines And Part Programming. \* All Chapters Have Been Thoroughly Revised And Updated With New Information. \* More Solved Examples Have Been Added. \* New Material On Tool Technology. \* Improved Quality Of Figures And More Photographs.

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The book thoroughly illustrates the causes of various phenomena and their effects on machining practice. It includes description of machining processes outlining the merits and de-merits of various modeling approaches.

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Spread in 22 chapters, the book is broadly divided in four sections: 1. Machining Processes 2. Cutting Tools 3. Machine Tools 4. Automation Data on cutting parameters for machining operations and main characteristics of machine tools have been separately provided in Annexures. In addition to exhaustive theory, a number of numerical examples have been solved and arranged in various chapters. Question bank has been given at the end of every chapter. The book is a must for anyone involved in metal cutting, machining, machine tool technology, machining applications, and manufacturing processes

Metal machining is the most widespread metal-shaping process in the mechanical manufacturing industry. World-wide investment in metal machining tools increases year on year - and the wealth of nations can be judged by it. This text - the most up-to-date in the field - provides in-depth discussion of the theory and application of metal machining at an advanced level. It begins with an overview of the development of metal machining and its role in the current industrial environment and continues with a discussion of the theory and practice of machining. The underlying mechanics are analysed in detail and there are extensive chapters examining applications through a discussion of simulation and process control. "Metal Machining: Theory and Applications" is

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**Essentials** reading for senior undergraduates and postgraduates specialising in cutting technology. It is also an invaluable reference tool for professional engineers. Professors Childs, Maekawa, Obikawa and Yamane are four of the leading authorities on metal machining and have worked together for many years. Of interest to all mechanical, manufacturing and materials engineers  
Theoretical and practical problems addressed

Completely revised and updated, this second edition of Fundamentals of Machining Processes: Conventional and Nonconventional Processes covers the fundamentals machining by cutting, abrasion, erosion, and combined processes. The new edition has been expanded with two additional chapters covering the concept of machinability and the roadmap for selecting machining processes that meet required design specification. See What's New in the Second Edition: Explanation of the definition of the relative machinability index and how the machinability is judged Important factors affecting the machinability ratings Machinability ratings of common engineering materials by conventional and nonconventional methods. Factors to be considered when selecting a machining process that meets the design specifications, including part features, materials, product accuracy, surface texture, surface integrity,

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cost, environmental impacts, and the process and the machine selected capabilities Introduction to new Magnetic Field Assisted Finishing Processes Written by an expert with 37 years of experience in research and teaching machining and related topics, this covers machining processes that range from basic conventional metal cutting, abrasive machining to the most advanced nonconventional and micromachining processes. The author presents the principles and theories of material removal and applications for conventional and nonconventional machining processes, discusses the role of machining variables in the technological characteristics of each process, and provides treatment of current technologies in high speed machining and micromachining. The treatment of the different subjects has been developed from basic principles and does not require the knowledge of advanced mathematics as a prerequisite. A fundamental textbook for undergraduate students, this book contains machining data, solved examples, and review questions which are useful for students and manufacturing engineers.

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