

Chapter 6 High Speed Machining

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High-Speed Machining covers every aspect of this important subject, from the basic mechanisms of the technology, right through to possible avenues for future research. This book will help readers choose the best method for their particular task, how to set up their equipment to reduce chatter and wear, and how to use simulation tools to model high-speed machining processes. The different applications of each technology are discussed throughout, as are the latest findings by leading researchers in this field. For any researcher looking to understand this topic, any manufacturer looking to improve performance, or any manager looking to upgrade their plant, this is the most comprehensive and authoritative guide available. Summarizes important R&D from around the world, focusing on emerging topics like intelligent machining Explains the latest best practice for the optimization of high-speed machining processes for greater energy efficiency and machining precision Provides practical advice on the testing and monitoring of HSM machines, drawing on practices from leading companies

Written by an expert with over 40 years of experience in research and teaching machining and related topics, this new edition textbook presents the principles and theories of material removal and applications for conventional, nonconventional and hybrid machining processes. The new edition is ideal for undergraduate students in production, materials, industrial, mechatronics, marine, mechanical, and manufacturing engineering programs, and also useful for graduate programs related to higher-level machining topics, as well as professional engineers and technicians. All chapters are updated, with additional chapters covering new topics of composite machining, vibration assisted machining and mass finishing operations. Features Presents a wide spectrum of metal cutting, abrasive machining, nonconventional and hybrid machining processes Analyzes the chip formation in machining by cutting and abrasion processes as well as the material removal mechanisms in the nonconventional and the hybrid processes Explains the role of each process variables on its behavior and technological characteristics in terms of material removal, product accuracy and surface quality Portrays the theoretical and empirical formula for removal rates and surface finish in different processes as well as very useful technical data that help in solving and analysis of day-to-day shop floor problems that face manufacturing engineers Clarifies the machinability concept and introduces the general guidelines for machining process selection

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, 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.

Advanced Machining and Finishing explains the background theory, working principles, technical specifications, and latest developments in a wide range of advanced machining and finishing techniques. The book includes valuable technical information, tables of data, and diagrams to assist machinists. Drawing on the work of experts in both academia and industry, coverage addresses theoretical developments as well as practical improvements from R&D. With over 25 important processes, from electro-chemical machining to nano-machining and magnetic field assisted finishing, this is the most complete guide to this subject available. This unique guide will allow readers to compare the characteristics of different processes, understand how they work, and provide parameters for their effective implementation. This is part of a 4 volume set entitled Handbooks in Advanced Manufacturing, with the other 3 addressing Advanced Welding and Deforming, Additive Manufacturing and Surface Treatment, and Sustainable Manufacturing Processes. Provides the theory, operational parameters, and latest developments in over 25 different machining and finishing processes Addresses both traditional and non-traditional machining methods Introduces basic concepts in an introductory chapter, helping readers from a range of backgrounds to engage with the subject matter

The United States now spends approximately \$115 billion annually to perform its metal removal tasks using conventional machining technology. Of this total amount, about \$14 billion is invested in the aerospace and associated industries. It becomes clear that metal removal technology is a very important candidate for rigorous investigation looking toward improvement of productivity within the manufacturing system. To aid in this endeavor, work has begun to establish a new scientific and technical base that will provide principles upon which manufacturing decisions may be based. One of the metal removal areas that has the potential for great economic advantages is high-speed machining and related technology. This text is concerned with discussions of ways in which high-speed machining systems can solve immediate problems of profiling, pocketing, slotting, sculpturing, facing, turning, drilling, and thin-walled sectioning. Benefits to many existing programs are provided by aiding in solving a current management production problem. that of efficiently removing large volumes of metal by chip removal. The injection of new high-rate metal removal techniques into conventional production procedures, which have remained basically unchanged for a century, presents a formidable systems problem, both technically and man agerially.The proper solution requires a sophisticated, difficult process whereby management-worker relationships are reassessed, age-old machine deSigns reevaluated, and a new vista of product/process planning and design admitted.

This is the first book to examine the “nuts and bolts” of production processes. It proposes a truly consilient approach to modeling production processes – one that goes beyond the vague principles found in standard economics – and provides details that are consistent with the applied mechanics and engineering literature. Providing a credible analysis of some of the most pressing questions of our era, such as the productivity slowdown and the information paradox, and bridging the gap between engineering, applied physics, economics, and management science, this book is a fascinating read for anyone interested in industry, the modern economy, and how physical factors constrain productivity growth.

Authored by leading experts from around the world, the three-volume Handbook of Nanostructured Thin Films and Coatings gives scientific researchers and product engineers a resource as dynamic and flexible as the field itself. The first two volumes cover the latest research and application of the mechanical and functional properties of thin films and coatings, while the third volume explores the cutting-edge organic nanostructured devices used to produce clean energy. This first volume, Nanostructured Thin Films and Coatings: Mechanical Properties, concentrates on essential properties such as hardness, toughness, and adhesion. It looks at process and performance and offers a detailed analysis of theories and size effect. It also covers: Fundamentals of hard and superhard nanocomposites and heterostructures Determination of hardness and modulus of thin films Fracture toughness and interfacial adhesion strength of thin films: Indentation and scratch experiments and analysis Toughness and toughening of hard nanocomposite coatings Processing and mechanical properties of hybrid sol-gel-derived nanocomposite coatings Use of nanomechanics to optimize coatings for cutting tools Electrolytic deposition of nanocomposite coatings: Processing, properties, and applications This book presents an industrial perspective on diamond and metal-containing amorphous carbon nanostructured coatings and transition metal nitride-based nanolayered and nanocomposite coatings. It also covers polymer films, from nanoscale synthesis to macroscale functionality. A complete resource, this handbook provides the detailed explanations that newcomers need, as well as the latest cutting-edge research and data for experts. Covering a wide range of mechanical and functional technologies, including those used in clean energy, these books also feature figures, tables, and images that will aid research and help professionals acquire and maintain a solid grasp of this burgeoning field. The Handbook of Nanostructured Thin Films and Coatings is composed of this volume and two others: Nanostructured Thin Films and Coatings: Functional Properties Organic Nanostructured Thin Film Devices and Coatings for Clean Energy

High Performance Control of AC Drives with Matlab®/Simulink Explore this indispensable update to a popular graduate text on electric drive techniques and the latest converters used in industry The Second Edition of High Performance Control of AC Drives with Matlab®/Simulink delivers an updated and thorough overview of topics central to the understanding of AC motor drive systems. The book includes new material on medium voltage drives, covering state-of-the-art technologies and challenges in the industrial drive system, as well as their components, and control, current source inverter-based drives, PWM techniques for multilevel inverters, and low switching frequency modulation for voltage source inverters. This book covers three-phase and multiphase (more than three-phase) motor drives including their control and practical problems faced in the field (e.g., adding LC filters in the output of a feeding converter), are considered. The new edition contains links to Matlab®/Simulink models and PowerPoint slides ideal for teaching and understanding the material contained within the book. Readers will also benefit from the inclusion of: A thorough introduction to high performance drives, including the challenges and requirements for electric drives and medium voltage industrial applications An exploration of mathematical and simulation models of AC machines, including DC motors and squirrel cage induction motors A treatment of pulse width modulation of power electronic DC-AC converter, including the classification of PWM schemes for voltage source and current source inverters Examinations of harmonic injection PWM and field-oriented control of AC machines Voltage source and current source inverter-fed drives and their control Modelling and control of multiphase motor drive system Supported with a companion website hosting online resources. Perfect for senior undergraduate, MSc and PhD students in power electronics and electric drives, High Performance Control of AC Drives with Matlab®/Simulink will also earn a place in the libraries of researchers working in the field of AC motor drives and power electronics engineers in industry.

The book is aimed at practitioners, engineers, researchers, students and teachers. The approach is direct, concise and authoritative. Progressing through each major element of the grinding system and then on to machine developments and process control, the reader becomes aware of all aspects of operation and design. Trends are described demonstrating key features. Coverage includes abrasives and super-abrasives, wheel design, dressing technology, machine accuracy and productivity, grinding machine design, high-speed grinding technology, cost optimization, ultra-precision grinding, process control developments, vibration control, coolants and fluid delivery. Trends in high precision and high speed grinding are explored Principles underlying improvements in machines and processes are explained Numerically worked examples give scale to essential process parameters Recent research findings and original contributions to knowledge are included A number of ultra-precision grinding machine developments are included

Metal cutting applications span the entire range from mass production to mass customization to high-precision, fully customized designs. The careful balance between precision and efficiency is maintained only through intimate knowledge of the physical processes, material characteristics, and technological capabilities of the equipment and workpieces involved. The best-selling first edition of Metal Cutting Theory and Practice provided such knowledge, integrating timely research with current industry practice. This brilliant reference enters its second edition with fully updated coverage, new sections, and the inclusion of examples and problems. Supplying complete, up-to-date information on machine tools, tooling, and workholding technologies, this second edition stresses a physical understanding of machining processes including forces, temperatures, and surface finish. This provides a practical basis for troubleshooting and evaluating vendor claims. In addition to updates in all chapters, the book features three new chapters on cutting fluids, agile and high-throughput machining, and design for machining. The authors also added examples and problems for additional hands-on insight. Rounding out the treatment, an entire chapter is devoted to machining economics and optimization. Endowing you with practical knowledge and a fundamental understanding of underlying physical concepts, Metal Cutting Theory and Practice, Second Edition is a necessity for designing, evaluating, purchasing, and using machine tools.

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