

Manufacturing Processes For Engineering Materials 4th Edition

Fundamentals of Modern Manufacturing is a balanced and qualitative examination of the materials, methods, and procedures of both traditional and recently-developed manufacturing principles and practices. This comprehensive textbook explores a broad range of essential points of learning, from long-established manufacturing processes and materials to contemporary electronics manufacturing technologies. An emphasis on the use of mathematical models and equations in manufacturing science presents readers with quantitative coverage of key topics, while plentiful tables, graphs, illustrations, and practice problems strengthen student comprehension and retention. Now in its seventh edition, this leading textbook provides junior or senior-level engineering students in manufacturing courses with an inclusive and up-to-date treatment of the basic building blocks of modern manufacturing science. Coverage of core subject areas helps students understand the physical and mechanical properties of numerous manufacturing materials, the fundamentals of common manufacturing processes, the economic and quality control issues surrounding various processes, and recently developed and emerging manufacturing technologies. Thorough investigation of topics such as metal-casting and welding, material shaping processes, machining and cutting technology, and manufacturing systems and support helps students gain solid

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foundational knowledge of modern manufacturing. This book introduces the materials and traditional processes involved in the manufacturing industry. It discusses the properties and application of different engineering materials as well as the performance of failure tests. The book lists both destructible and non-destructible processes in detail. The design associated with each manufacturing processes, such as Casting, Forming, Welding and Machining, are also covered. Provides an in-depth understanding of the fundamentals of a wide range of state-of-the-art materials manufacturing processes Modern manufacturing is at the core of industrial production from base materials to semi-finished goods and final products. Over the last decade, a variety of innovative methods have been developed that allow for manufacturing processes that are more versatile, less energy-consuming, and more environmentally friendly. This book provides readers with everything they need to know about the many manufacturing processes of today. Presented in three parts, Modern Manufacturing Processes starts by covering advanced manufacturing forming processes such as sheet forming, powder forming, and injection molding. The second part deals with thermal and energy-assisted manufacturing processes, including warm and hot hydrostamping. It also covers high speed forming (electromagnetic, electrohydraulic, and explosive forming). The third part reviews advanced material removal process like advanced grinding, electro-discharge machining, micro milling, and laser machining. It also looks at high speed and hard machining and

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examines advances in material modeling for manufacturing analysis and simulation. Offers a comprehensive overview of advanced materials manufacturing processes Provides practice-oriented information to help readers find the right manufacturing methods for the intended applications Highly relevant for material scientists and engineers in industry Modern Manufacturing Processes is an ideal book for practitioners and researchers in materials and mechanical engineering.

Individuals who will be involved in design and manufacturing of finished products need to understand the grand spectrum of manufacturing technology. Comprehensive and fundamental, *Manufacturing Technology: Materials, Processes, and Equipment* introduces and elaborates on the field of manufacturing technology—its processes, materials, tooling, and equipment. The book emphasizes the fundamentals of processes, their capabilities, typical applications, advantages, and limitations. Thorough and insightful, it provides mathematical modeling and equations as needed to enhance the basic understanding of the material at hand. Designed for upper-level undergraduates in mechanical, industrial, manufacturing, and materials engineering disciplines, this book covers complete manufacturing technology courses taught in engineering colleges and institutions worldwide. The book also addresses the needs of production and manufacturing engineers and technologists participating in related industries.

An encyclopaedic guide to production techniques and

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materials for product and industrial designers, engineers, and architects. Today's product designers are presented with a myriad of choices when creating their work and preparing it for manufacture. They have to be knowledgeable about a vast repertoire of processes, ranging from what used to be known as traditional "crafts" to the latest technology, to enable their designs to be manufactured effectively and efficiently. Information on the internet about such processes is often unreliable, and search engines do not usefully organize material for designers. This fundamental new resource explores innovative production techniques and materials that are having an impact on the design industry worldwide. Organized into four easily referenced parts—Forming, Cutting, Joining, and Finishing—over seventy manufacturing processes are explained in depth with full technical descriptions; analyses of the typical applications, design opportunities, and considerations each process offers; and information on cost, speed, and environmental impact. The accompanying step-by-step case studies look at a product or component being manufactured at a leading international supplier. A directory of more than fifty materials includes a detailed technical profile, images of typical applications and finishes, and an overview of each material's design characteristics. With some 1,200 color photographs and technical illustrations, specially commissioned for this book, this is the definitive reference for product designers, 3D designers, engineers, and architects who need a convenient, highly accessible, and practical reference.

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The rise of manufacturing intelligence is fuelling innovation in processes and products concerning a low environmental impact over the product's lifecycle. Sustainable intelligent manufacturing is regarded as a manufacturing paradigm for the 21st century, in the move towards the next generation of manufacturing and processing technologies. The manu

“Materials Science in Manufacturing focuses on materials science and materials processing primarily for engineering and technology students preparing for careers in manufacturing. The text also serves as a useful reference on materials science for the practitioner engaged in manufacturing as well as the beginning graduate student. Integrates theoretical understanding and current practices to provide a resource for students preparing for advanced study or career in industry. Also serves as a useful resource to the practitioner who works with diverse materials and processes, but is not a specialist in materials science. This book covers a wider range of materials and processes than is customary in the elementary materials science books. This book covers a wider range of materials and processes than is customary in the elementary materials science books. * Detailed explanations of theories, concepts, principles and practices of materials and processes of manufacturing through richly illustrated text * Includes new topics such as nanomaterials and nanomanufacturing, not covered in most similar works * Focuses on the interrelationship between Materials Science, Processing Science, and Manufacturing Technology

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Responding to the need for an integrated approach in manufacturing engineering oriented toward practical problem solving, this updated second edition describes a process morphology based on fundamental elements that can be applied to all manufacturing methods - providing a framework for classifying processes into major families with a common theoretical foundation. This work presents time-saving summaries of the various processing methods in data sheet form - permitting quick surveys for the production of specific components.; Delineating the actual level of computer applications in manufacturing, this work: creates the basis for synthesizing process development, tool and die design, and the design of production machinery; details the product life-cycle approach in manufacturing, emphasizing environmental, occupational health and resource impact consequences; introduces process planning and scheduling as an important part of industrial manufacturing; contains a completely revised and expanded section on ceramics and composites; furnishes new information on welding arc formation and maintenance; addresses the issue of industrial safety; and discusses progress in non-conventional processes such as laser processing, layer manufacturing, electrical discharge, electron beam, abrasive jet, ultrasonic and electrochemical machining.; Revealing how manufacturing methods are adapted in industry practices, this work is intended for use by students of manufacturing engineering, industrial engineering and engineering design; and also for use as a self-study guide by manufacturing, mechanical, materials, industrial and design engineers.

This book approaches manufacturing as a basic problem of making a desired end-product from bulk raw materials. It encompasses the entire gamut of activities from product concept to maintenance of past products in the field, and everything in between.

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Manufacturing Processes provides an excellent introduction to today's manufacturing processes, as well as an overview of automated manufacturing systems. The text concentrates on the five major types of industrial materials: metals, plastics, ceramics, woods, and composites. It provides thorough coverage of the forming, separating, fabricating, conditioning, and finishing processes related to each material. The text includes a chapter covering the materials and manufacturing processes used in packaging finished goods.

The manufacturing processes of composite materials are numerous and often complex. Continuous research into the subject area has made it hugely relevant with new advances enriching our understanding and helping us overcome design and manufacturing challenges. Advances in Composites Manufacturing and Process Design provides comprehensive coverage of all processing techniques in the field with a strong emphasis on recent advances, modeling and simulation of the design process. Part One reviews the advances in composite manufacturing processes and includes detailed coverage of braiding, knitting, weaving, fibre placement, draping, machining and drilling, and 3D composite processes. There are also highly informative chapters on thermoplastic and ceramic composite manufacturing processes, and repairing composites. The mechanical behaviour of reinforcements and the numerical simulation of composite manufacturing processes are examined in Part Two. Chapters examine the properties and behaviour of textile reinforcements and resins. The final chapters of the book investigate finite element analysis of composite forming, numerical simulation of flow processes, pultrusion processes and modeling of chemical vapour infiltration processes. Outlines the advances in the different methods of composite manufacturing processes Provides extensive information on the thermo-mechanical behavior of reinforcements and

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composite prepregs Reviews numerical simulations of forming and flow processes, as well as pultrusion processes and modeling chemical vapor infiltration

Additive Manufacturing: Materials, Processes, Quantifications and Applications is designed to explain the engineering aspects and physical principles of available AM technologies and their most relevant applications. It begins with a review of the recent developments in this technology and then progresses to a discussion of the criteria needed to successfully select an AM technology for the embodiment of a particular design, discussing material compatibility, interfaces issues and strength requirements. The book concludes with a review of the applications in various industries, including bio, energy, aerospace and electronics. This book will be a must read for those interested in a practical, comprehensive introduction to additive manufacturing, an area with tremendous potential for producing high-value, complex, individually customized parts. As 3D printing technology advances, both in hardware and software, together with reduced materials cost and complexity of creating 3D printed items, these applications are quickly expanding into the mass market. Includes a discussion of the historical development and physical principles of current AM technologies Exposes readers to the engineering principles for evaluating and quantifying AM technologies Explores the uses of Additive Manufacturing in various industries, most notably aerospace, medical, energy and electronics

Manufacturers know the value of a knowledgeable workforce. The challenge today is finding skilled people to fill these positions. Since publication of the first edition in 1961, instructors, students, and practitioners have relied on Manufacturing Processes and Materials for the foundational knowledge needed to perform in manufacturing roles across a myriad of industries. As an on-the-job reference, anyone

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working in a technical department of a manufacturing company — regardless of education, experience, and skill level — will use this book to gain a basic understanding of manufacturing processes, materials, and equipment. Now in its fifth edition, the book covers the basic processes, materials, and machinery used in the job shop, toolroom, or small manufacturing facility. At the same time, it describes advanced equipment used in larger production environments. The reader is given a thorough review of metals, composites, plastics, and other engineering materials, including their physical properties, testing, treatment, and suitability for use in manufacturing. Quality, measurement and gaging, process planning and cost analysis, and manufacturing systems are all addressed. Questions and problems at the end of each chapter can be used as a self-test or as assignments in the classroom. Manufacturing Processes and Materials is also available as an eBook. Additional teaching materials for instructors: Instructor's Guide (eBook only) Instructor's Slides (zip file)

To maintain competitiveness in the emerging global economy, U.S. manufacturing must rise to new standards of product quality, responsiveness to customers, and process flexibility. This volume presents a concise and well-organized analysis of new research directions to achieve these goals. Five critical areas receive in-depth analysis of present practices, needed improvement, and research priorities: Advanced engineered materials that offer the prospect of better life-cycle performance and other gains. Equipment reliability and maintenance practices for better returns on capital investment. Rapid product realization techniques to speed delivery to the marketplace. Intelligent manufacturing control for improved reliability and greater precision. Building a workforce with the multidisciplinary skills needed for competitiveness. This sound and accessible analysis will be

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useful to manufacturing engineers and researchers, business executives, and economic and policy analysts.

This book cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes. It's intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures. A key development incorporated within this book is 3D printing, which is being used to produce complex parts including composites with odd shape fibers, as well as tissue and body organs. This book has been tailored for engineers, scientists and practitioners in a number of different fields such as aerospace, mechanical engineering, materials science and biomedicine. Biomimetic principles have also been integrated.

This book provides a convenient, single source of information on advanced machining, material forming, and joining processes. It describes available technologies that use tools, such as high velocity material jets, pulsed magnetic fields, light beams, electrochemical reactions, and more. Organized by type of process (mechanical, chemical, electrochemical, and thermal), the book discusses 31 important nontraditional processes and covers each process's principles, equipment, capabilities, and operating parameters. The author includes a list of nontraditional manufacturing firms, nearly 250

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figures that clearly illustrate the technologies, and numerous bibliographic citations for additional reading.

Manufacturing, reduced to its simplest form, involves the sequencing of product forms through a number of different processes. Each individual step, known as an unit manufacturing process, can be viewed as the fundamental building block of a nation's manufacturing capability. A committee of the National Research Council has prepared a report to help define national priorities for research in unit processes. It contains an organizing framework for unit process families, criteria for determining the criticality of a process or manufacturing technology, examples of research opportunities, and a prioritized list of enabling technologies that can lead to the manufacture of products of superior quality at competitive costs. The study was performed under the sponsorship of the National Science Foundation and the Defense Department's Manufacturing Technology Program.

This book discusses advanced materials and manufacturing processes with insights and overviews on tribology, automation, mechanical, biomedical, and aerospace engineering, as well as the optimization of industrial applications. The book explores the different types of composite materials while reporting on the design considerations and applications of each. Offering an overview of

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futuristic research areas, the book examines various engineering optimization and multi-criteria decision-making techniques and introduces a specific control framework used in analyzing processes. The book includes problem analyses and solving skills and covers different types of composite materials, their design considerations, and applications. This book is an informational resource for advanced undergraduate and graduate students, researchers, scholars, and field professionals, providing an update on the current advancements in the field of manufacturing processes.

Manufacturing Processes for Engineering Materials, Fourth Edition is a comprehensive text, written mainly for students in mechanical, industrial, and metallurgical and materials engineering programs. The text, as well as the numerous examples and case studies in each chapter, clearly show that manufacturing engineering is a complex and interdisciplinary subject. The topics are organized and presented in such a manner that they motivate and challenge students to present technically and economically viable solutions to a wide variety of questions and problems, including product design. Since the publication of the third edition, there have been rapid and significant advances in various areas in manufacturing. The fourth edition of Manufacturing Processes for Engineering Materials, while continuing with balanced coverage of the relevant

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fundamentals, analytical approaches, and applications, reflects these new advances. New in the Fourth Edition: *A new Chapter 13 on fabrication of microelectronic and micromechanical devices.

*Expansion of design considerations in each chapter. r New examples and case studies throughout all chapters. *A total of 1230 questions and problems; 32 per cen

This work presents the concepts of process design, problem identification, problem-solving and process optimization. It provides the basic tools needed to increase the consistency and profitability of manufacturing options, stressing the paradigms of improvement and emphasizing the hands-on use of tools furnished. The book introduces basic experimental design principles and avoids complicated statistical formulae.

This comprehensive, up-to-date text has balanced coverage of the fundamentals of materials and processes, its analytical approaches and its applications in manufacturing engineering. Students using this text will be able to properly assess the capabilities, limitations and potential of manufacturing processes and their competitive aspects.

This new edition of Manufacturing Processes for Engineering Materials continues its tradition of balanced and comprehensive coverage of relevant engineering fundamentals, mathematical analysis, and traditional as

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well as advanced applications of manufacturing processes and operations. Updated and thoroughly edited for improved readability and clarity, this book is written mainly for students in mechanical, industrial, and metallurgical and materials engineering programs. The text continually emphasizes the important interactions among a wide variety of technical disciplines and the economics of manufacturing operations in an increasingly competitive global marketplace.

The first manufacturing book to examine time-based break-even analysis, this landmark reference/text applies cost analysis to a variety of industrial processes, employing a new, problem-based approach to manufacturing procedures, materials, and management. An Introduction to Manufacturing Processes and Materials integrates analysis of material costs and process costs, yielding a realistic, effective approach to planning and executing efficient manufacturing schemes. It discusses tool engineering, particularly in terms of cost for press work, forming dies, and casting patterns, process parameters such as gating and riser design for casting, feeds, and more.

Metals are still the most widely used structural materials in the manufacture of products and structures. Their properties are extremely dependent on the processes they undergo to form the final product. Successful manufacturing therefore depends on a detailed knowledge of the processing of the materials involved. This highly illustrated book provides that knowledge. Metal processing is a technical subject requiring a quantitative approach. This book illustrates this approach

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with real case studies derived from industry. Real

industrial case studies Quantitative approach

Challenging student problems

Manufacturing Processes for Engineering

Materials Pearson

"For undergraduate courses in Mechanical, Industrial, Metallurgical, and Materials Engineering Programs. For graduate courses in Manufacturing Science and Engineering." "Manufacturing Processes for Engineering Materials" addresses advances in all aspects of manufacturing, clearly presenting comprehensive, up-to-date, and balanced coverage of the fundamentals of materials and processes. With the Sixth Edition, you'll learn to properly assess the capabilities, limitations, and potential of manufacturing processes and their competitive aspects. The authors present information that motivates and challenges for understanding and developing an appreciation of the vital importance of manufacturing in the modern global economy. The numerous examples and case studies throughout the book help to develop a perspective on the real-world applications of the topics described in the book. As in previous editions, this text maintains the same number of chapters while continuing to emphasize the interdisciplinary nature of all manufacturing activities, including the complex interactions among materials, design, and manufacturing processes. "

Manufacturing Techniques for Materials: Engineering and Engineered provides a cohesive and comprehensive overview of the following: (i) prevailing and emerging trends, (ii) emerging developments and related

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technology, and (iii) potential for the commercialization of techniques specific to manufacturing of materials. The first half of the book provides the interested reader with detailed chapters specific to the manufacturing of emerging materials, such as additive manufacturing, with a valued emphasis on the science, technology, and potentially viable practices specific to the manufacturing technique used. This section also attempts to discuss in a lucid and easily understandable manner the specific advantages and limitations of each technique and goes on to highlight all of the potentially viable and emerging technological applications. The second half of this archival volume focuses on a wide spectrum of conventional techniques currently available and being used in the manufacturing of both materials and resultant products. Manufacturing Techniques for Materials is an invaluable tool for a cross-section of readers including engineers, researchers, technologists, students at both the graduate level and undergraduate level, and even entrepreneurs.

Introducing a new engineering product or changing an existing model involves developing designs, reaching economic decisions, selecting materials, choosing manufacturing processes, and assessing environmental impact. These activities are interdependent and should not be performed in isolation from each other. This is because the materials and processes used in making a product can have a major influence on its design, cost, and performance in service. This Fourth Edition of the best-selling Materials and Process Selection for Engineering Design takes all of this into account and has

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been comprehensively revised to reflect the many advances in the fields of materials and manufacturing, including: Increasing use of additive manufacturing technology, especially in biomedical, aerospace and automotive applications Emphasizing the environmental impact of engineering products, recycling, and increasing use of biodegradable polymers and composites Analyzing further into weight reduction of products through design changes as well as material and process selection, especially in manufacturing products such as electric cars Discussing new methods for solving multi-criteria decision-making problems, including multi-component material selection as well as concurrent and geometry-dependent selection of materials and joining technology Increasing use of MATLAB by engineering students in solving problems This textbook features the following pedagogical tools: New and updated practical case studies from industry A variety of suggested topics and background information for in-class group work Ideas and background information for reflection papers so readers can think critically about the material they have read, give their interpretation of the issues under discussion and the lessons learned, and then propose a way forward Open-book exercises and questions at the end of each chapter where readers are evaluated on how they use the material, rather than how well they recall it, in addition to the traditional review questions Includes a solutions manual and PowerPoint lecture materials for adopting professors Aimed at students in mechanical, manufacturing, and materials engineering, as well as professionals in these fields, this book

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provides the practical know-how in order to choose the right materials and processes for development of new or enhanced products.

This best-selling textbook for major manufacturing engineering programs across the country masterfully covers the basic processes and machinery used in the job shop, tool room, or small manufacturing facility. At the same time, it describes advanced equipment and processes used in larger production environments. Questions and problems at the end of each chapter can be used as self-tests or assignments. An Instructor's Guide is available to tailor a more structured learning experience. Additional resources from SME, including the Fundamental Manufacturing Processes videotape series can also be used to supplement the book's learning objectives. With 31 chapters, 45 tables, 586 illustrations, 141 equations and an extensive index, Manufacturing Processes & Materials is one of the most comprehensive texts available on this subject.

More and more companies manufacture reinforced composite products. To meet the market need, researchers and industries are developing manufacturing methods without a reference that thoroughly covers the manufacturing guidelines. Composites Manufacturing: Materials, Product, and Process Engineering fills this void. The author presents a fundamental classification of processes, helping you understand where a process fits within the overall scheme and which process is best suited for a particular component. You will understand: Types of raw materials available for the fabrication of composite products Methods of selecting right material

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for an application Six important phases of a product development process Design for manufacturing (DFM) approach for integrating benefits and capabilities of the manufacturing process into design of the product so that the best product can be produced in a shortest possible time and with limited resources Detailed description of composites manufacturing processes with some case studies on actual part making such as boat hulls, bathtubs, fishing rods and more Process models and process selection criteria Design and manufacturing guidelines for making cost-competitive composite products Procedures for writing manufacturing instructions and bill of materials Joining and machining techniques for composite materials Cost-estimating techniques and methods of comparing technologies/manufacturing processes based on cost Recycling approach to deal with post-market composite products To stay ahead in this quickly changing field, you need information you can trust. You need Composites Manufacturing: Materials, Product, and Process Engineering.

Provides the technical and economic background to enable engineers to integrate the various activities involved in product development in order to arrive at the optimum solution for a given application. The first part discusses the behavior and processing of engineering materials, while the second part covers the design of engineering components an.

This book focuses on advanced processing of new and emerging materials, and advanced manufacturing systems based on thermal transport and fluid flow. It

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examines recent areas of considerable growth in new and emerging manufacturing techniques and materials, such as fiber optics, manufacture of electronic components, polymeric and composite materials, alloys, microscale components, and new devices and applications. The book includes analysis, mathematical modeling, numerical simulation and experimental study of processes for prediction, design and optimization. It discusses the link between the characteristics of the final product and the basic transport mechanisms and provides a foundation for the study of a wide range of manufacturing processes. Focuses on new and advanced methods of manufacturing and materials processing with traditional methods described in light of the new approaches; Maximizes reader understanding of the fundamentals of how materials change, what transport processes are involved, and how these can be simulated and optimized - concepts not covered elsewhere; Introduces new materials and applications in manufacturing and summarizes traditional processing methods, such as heat treatment, extrusion, casting, injection molding, and bonding, to show how they have evolved and how they could be used for meeting the challenges that we face today.

- One of very few books available to cover this subject area.
- A practical book with a wealth of detail. This book covers the major manufacturing processes for polymer matrix composites with an emphasis on continuous fibre-reinforced composites. It covers the major fabrication processes in detail. Very few books cover the details of fabrication and assembly processes for composites. This

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book is intended for the engineer who wants to learn more about composite processing: any one with some experience in composites should be able to read it. The author, who has 34 years experience in the aerospace industry, has intentionally left out mathematical models for processes so the book will be readable by the general engineer. It differs from other books on composites manufacturing in focussing almost solely on manufacturing processes, while not attempting to cover materials, test methods, mechanical properties and other areas of composites.

Mechanics of Materials in Modern Manufacturing Methods and Processing Techniques provides a detailed overview of the latest developments in the mechanics of modern metal forming manufacturing. Focused on mechanics as opposed to process, it looks at the mechanical behavior of materials exposed to loading and environmental conditions related to modern manufacturing processes, covering deformation as well as damage and fracture processes. The book progresses from forming to machining and surface-treatment processes, and concludes with a series of chapters looking at recent and emerging technologies. Other topics covered include simulations in autofrettage processes, modeling strategies related to cutting simulations, residual stress caused by high thermomechanical gradients and pultrusion, as well as the mechanics of the curing process, forging, and cold spraying, among others. Some non-metallic materials, such as ceramics and composites, are covered as well. Synthesizes the latest research in the mechanics of

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modern metal forming processes Suggests theoretical models and numerical codes to predict mechanical responses Covers mechanics of shot peening, pultrusion, hydroforming, magnetic pulse forming Considers applicability of different materials and processes for optimum performance

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