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David W. Rosen
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Additive Manufacturing Technologies

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Direct Digital Manufacturing

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Additive Manufacturing Technologies Rapid Prototyping To Direct Digital Manufacturing

Ram K. Gupta, Tuan Anh Nguyen



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Additive Manufacturing Technologies Ian Gibson,David W. Rosen,Brent Stucker,2009-12-03 Additive Manufacturing Technologies Rapid Prototyping to Direct Digital Manufacturing deals with various aspects of joining materials to form parts Additive Manufacturing AM is an automated technique for direct conversion of 3D CAD data into physical objects using a variety of approaches Manufacturers have been using these technologies in order to reduce development cycle times and get their products to the market quicker more cost effectively and with added value due to the incorporation of customizable features Realizing the potential of AM applications a large number of processes have been developed allowing the use of various materials ranging from plastics to metals for product development Authors Ian Gibson David W Rosen and Brent Stucker explain these issues as well as Providing a comprehensive overview of AM technologies plus descriptions of support technologies like software systems and post processing approaches Discussing the wide variety of new and emerging applications like micro scale AM medical applications direct write electronics and Direct Digital Manufacturing of end use components Introducing systematic solutions for process selection and design for AM Additive Manufacturing Technologies Rapid Prototyping to Direct Digital Manufacturing is the perfect book for researchers students practicing engineers entrepreneurs and manufacturing industry professionals interested in additive manufacturing

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Rani, Mohd Hafis Sulaiman, J. Paulo Davim, 2023-12-22 Tribology in Sustainable Manufacturing compiles the fundamentals of friction in manufacturing processes and the application of tribology in advanced manufacturing. Covering topics such as 3D printing, green lubrication, laser sintering, and Industry 4.0, the book enables cost-effective and environmentally friendly manufacturing processes. In an effort to reduce energy consumption, production time, and costs while simultaneously improving plant productivity, sustainable tribology plays a key role in modern manufacturing processes. With a focus on broadening the application of tribology in sustainable manufacturing, the book integrates cutting-edge research from international contributors. Topics included involve machine learning, micro machining, friction, stir welding, and metal forming. It also discusses the tribological properties of advanced materials and coatings and how to model tribology in manufacturing processes. This book will be of interest to engineers and students in the fields of machining, tribology, additive manufacturing, surface engineering, and coating.

Materials in Sports Equipment Aleksandar Subic, 2019-05-18 Materials in Sports Equipment Second Edition provides a detailed review on the design and performance of materials in sports apparel, equipment, and surfaces in a broad range of sporting applications. Chapters cover materials modeling, non-destructive testing, design issues for sports apparel, skull and mouth protection, and new chapters on artificial sport surfaces, anthropometric design, customization, and 3D printing in sports equipment. In addition, the book covers sports-specific design and material choices in a range of key sports from baseball, rowing, and archery to ice hockey, snowboarding, and fishing. Users will find a valuable resource that explicitly links materials engineering and design principles directly to sports applications, thus making it an essential resource to materials scientists, engineers, sports equipment designers, and sports manufacturers developing products in this evolving field. Provides both updated and new chapters on recent developments in the design and performance of advanced materials in a number of sports applications. Discusses varying aspects such as the modeling of materials behavior and non-destructive testing. Analyzes the aerodynamic properties of materials and the design of sports apparel and smart materials. Explores new topics on athletic equipment such as 3D printing and anthropometric design, customization, and on artificial sports surfaces.

3D & 4D Printing Methods for Pharmaceutical Manufacturing and Personalised Drug Delivery Dimitrios Lamprou, 2023-08-04 New materials and manufacturing techniques are emerging with potential to address the challenges associated with the manufacture of pharmaceutical systems that will teach new tricks to old drugs. 3D printing (3DP) is a technique that can be used for the manufacturing of dosage forms and especially targeting paediatric and geriatric formulations as it permits the fabrication of high degrees of complexity with great reproducibility in a fast and cost-effective fashion and offers a new paradigm for the direct manufacture of personalised dosage forms. The book is covering the basics behind each additive manufacturing (AM) method, current applications in pharmaceuticals for each 3DP method, and case studies, examples from a teaching perspective, targeting undergraduate (UG) and postgraduate (PG) students. A unique feature of this book is the integration of studies based upon the use of different AM technologies which are designed to reinforce

importance printing parameters and material considerations The book includes case studies or multiple choice questions MCQs which allow application of the content in a flipped classroom Smart and Flexible Energy Devices Ram K. Gupta, Tuan Anh Nguyen, 2022-03-23 The scientific community and industry have seen tremendous progress in efficient energy production and storage in the last few years With the advancement in technology new devices require high performance stretchable bendable and twistable energy sources which can be integrated into next generation wearable compact and portable electronics for medical military and civilian applications Smart and Flexible Energy Devices examines the materials basic working principles and state of the art progress of flexible devices like fuel cells solar cells batteries and supercapacitors Covering the synthesis approaches for advanced energy materials in flexible devices and fabrications and fundamental design concepts of flexible energy devices such as fuel cells solar cells batteries and supercapacitors top author teams explore how newer materials with advanced properties are used to fabricate the energy devices to meet the future demand for flexible electronics Additional features include Addressing the materials technologies and challenges of various flexible energy devices under one cover Emphasizing the future demand and challenges of the field Considering all flexible energy types such as fuel cells solar cells batteries and supercapacitors Suitability for undergraduate and postgraduate students of material science and energy programs This is a valuable resource for academics and industry professionals working in the field of energy materials nanotechnology and energy devices Metal Matrix Composites Suneev Anil Bansal, Virat Khanna, Pallav Gupta, 2022-08-23 Metal Matrix Composites MMC are materials that can be tailored to achieve specific properties influenced by fabrication techniques Metal Matrix Composites Fabrication Production and 3D Printing cover various aspects of fabrication production and new manufacturing techniques including research and development It includes conventional fabrication techniques and methods required to synthesize micro nano MMCs Multivariate approach required to optimize production including development of complex geometries is explained as well Features Provides in depth information on fabrication production and advanced manufacturing of Metal Matrix Composites MMCs Details about matrix reinforcement and application oriented fabrication processes Emphasizes on advance processing methods like metal 3D printing additive and subtractive manufacturing techniques Provides comprehensive record of fabrication development in MMCs Focus on materials and application based processing techniques This book aims at graduate students researchers and professionals in micro nano science and technology mechanical engineering industrial engineering metallurgy and composites Titanium in Medical and Dental Applications Francis Froes, Ma Qian, 2018-05-09 Titanium in Medical and Dental Applications is an essential reference book for those involved in biomedical materials and advanced metals Written by well known experts in the field it covers a broad array of titanium uses including implants instruments devices the manufacturing processes used to create them their properties corrosion resistance and various fabrication approaches Biomedical titanium materials are a critically important part of biomaterials especially in cases where non metallic

biomedical materials are not suited to applications such as the case of load bearing implants The book also covers the use of titanium for implants in the medical and dental fields and reviews the use of titanium for medical instruments and devices Provides an understanding of the essential and broad applications of Titanium in both the medical and dental industries Discusses the pathways to manufacturing titanium into critical biomedical and dental devices Includes insights into further applications within the industry

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Problems and Prospects for the Development of Materials Science Alexander Saprykin,2020-04-17 International Scientific and Practical Conference Materials Science Mechanical Engineering and Energy Problems and Prospects for Development MSMEE 2019

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