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DEANDRE ANGIE

Principles and Applications (with Companion CD-ROM) , 2nd Edition John Wiley & Sons
User's Guide to Rapid Prototyping will help designers, engineers, executive management, and others in the company understand how to apply rapid prototyping technologies such as 3D printing, stereo-lithography, selective laser sintering, and fused deposition modeling to the product development process. Intertwined with rapid prototyping, the processes of rapid tooling and rapid manufacturing are also discussed. An aid to making informed business decisions, the book provides information about when it may be right to implement rapid prototyping in-house versus going to a service provider. The path through justification, evaluation, and implementation is outlined. Readers will gain insights into the benefits, risks, and limitations of each technology.
Digital Technologies in Oral and Maxillofacial Surgery, An Issue of Atlas of the Oral and Maxillofacial Surgery Clinics vdf Hochschulverlag AG
This book gathers papers presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2016), held on 14-16 September, 2016, in Catania, Italy. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is divided into eight main sections, reflecting the focus and primary themes of the conference. The contributions presented here will not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed, and future interdisciplinary collaborations.
Trends: Business and Culture Reports, Book 2, Global Color Edition World Scientific Publishing Company
Collection of selected, peer reviewed papers from the 2014 International Conference on Vehicle & Mechanical Engineering and Information Technology (VMEIT 2014), February 19-20, 2014. The 1058 papers are grouped as follows: Chapter 1: Design and Researches in Area of Vehicle and General Mechanical Engineering, Chapter 2: Power and Electric Systems, Electronics and Microelectronics, Embedded and Integrated Systems, Chapter 3: Measurement and Instrumentation, Monitoring and Detection Technologies, Fault Diagnosis, Chapter 4: Mechatronics, Automation and Control, Chapter 5: Computation Methods and Algorithms for Modeling, Simulation and Optimization, Data Mining and Data Processing, Chapter 6: Communication, Signal and Image Processing, Data Acquisition, Identification and Recognition Technologies, Chapter 7: Information Technologies, WEB and Networks Engineering, Information Security, Software Application and Development, Chapter 8: Material Science, Technologies of Material Processing, Exploration and Mining of Mineral Resources, Chapter 9: Building Materials and Technologies in Construction, Chapter 10: New Technologies in Urban Construction and Environmental Engineering, Chapter 11: Modern Tendency in Area of Management Engineering, Logistics, Economics, Finance and Education, Chapter 12: Applied Research and Solutions in Area of Sports and Physical Training
Proceedings of the International Joint Conference on Mechanics, Design Engineering & Advanced Manufacturing (JCM 2016), 14-16 September, 2016, Catania, Italy Kinney Brothers Publishing
Latest Edition: 3D Printing and Additive Manufacturing: Principles and Applications (with Companion Media Pack). Fourth edition of Rapid Prototyping. Rapid Prototyping (RP) has revolutionized the landscape of how prototypes and products are made and small batch manufacturing carried out. This book gives a comprehensive coverage of RP and rapid tooling processes, data formats and applications. A CD-ROM, included in the book, presents RP and its principles in an interactive way to augment the learning experience. Special features: Most comprehensive coverage of more than 30 RP SystemsUnderstanding of RP through applicationsIn-depth revelation of the basic principles behind major RP techniquesDiscussion of important issues such as STL file problems of RP partsInteractive CD-ROM to demonstrate the major RP techniquesRP company background information and contact addresses
3d Printing And Additive Manufacturing: Principles And Applications - Fifth Edition Of Rapid Prototyping Kinney Brothers Publishing
This book presents the state of the art in advanced customization within the sector of architectural design and construction, explaining important new technologies that are boosting design, product and process innovation and identifying the challenges to be confronted as we move toward a mass customization construction industry. Advanced machinery and software integration are discussed, as well as an overview of the manufacturing techniques offered through digital methods that are acquiring particular significance within the field of digital architecture. CNC machining, Robotic Fabrication, and Additive Manufacturing processes are all clearly explained, highlighting their ability to produce personalized architectural forms and unique construction components. Cutting-edge case studies in digitally fabricated architectural realizations are described and, looking towards the future, a new model of 100% customized architecture for design and construction is presented. The book is an excellent guide to the profound revolution taking place within the fields of architectural design and construction, characterized by computational tools, advanced fabrication means and custom-made high-performance architecture.
Vehicle, Mechatronics and Information Technologies II Bentham Science Publishers
This book focuses on applications of three-dimensional (3D) printing in healthcare. It first describes a range of biomaterials, including their physicochemical and biological properties. It then reviews the current state of the art in bioprinting techniques and the potential application of bioprinting, computer-aided additive manufacturing of cells, tissues, and scaffolds to create organs in regenerative medicine. Further, it discusses the orthopedic applications of 3D printing in the design and fabrication of dental implants, and the use of 3D bioprinting in oral and maxillofacial surgery and in tissue and organ engineering. Lastly, the book examines the 3D printing technologies that are used for the fabrication of the drug delivery system. It also explores the current challenges and the future of 3D bioprinting in medical sciences, as well as the market demand.
3D Printing and Additive Manufacturing Butterworth-Heinemann
Rapid prototyping (RP) has revolutionized how prototypes are made and small batch manufacturing is carried out. With rapid prototyping, The strategies used to produce a part change a number of important considerations and limitations previously faced by tool designers and engineers. Now in its third edition, this textbook is still the definitive text on RP. it covers the key RP processes, The available models and specifications, and their principles, materials, advantages and disadvantages. Examples of application areas in design, planning, manufacturing, biomedical engineering, art and architecture are also given. The book includes several related problems so that the reader can test his or her understanding of the topics. New to this edition, The included CD-ROM presents animated illustrations of the working principles of today's key RP processes.
3D Printing Technology and Its Diverse Applications World Scientific Publishing Company
The essential book for understanding the challenges and technologies that will shape the next few decades How will we live in the future? And what will the human race become? Will we nurture designer babies, be served by intelligent robots, have personal 3D printers, and grow products on the vine using synthetic biology? Or will shortages of oil, fresh water and other natural resources constrain our lifestyles and lead to industrial decline? In this fascinating guide, futurist Christopher Barnatt examines 25 known challenges and technologies that will help shape the next few decades. From Peak Water to vertical farms, nanotechnology to augmented reality, and electric cars to space travel, a startling picture is painted of future possibilities that no individual or business will be able to ignore. Highlighting life-changing research and innovation from over 250 companies, universities and non-profit organizations around the globe, 25 Things You Need to Know About the Future is a startling, frightening and powerful blueprint for anybody who wants to future gaze or future shape.
Clinical Applications of Digital Dental Technology Bentham Science Publishers
Latest Edition: 3D Printing and Additive Manufacturing: Principles and Applications. Fifth Edition of Rapid Prototyping. Rapid prototyping (RP) has revolutionized how prototypes are made and small batch manufacturing is carried out. With rapid prototyping, the strategies used to produce a part change a number of important considerations and limitations previously faced by tool designers and engineers. Now in its third edition, this textbook is still the definitive text on RP. It covers the key RP processes, the available models and specifications, and their principles, materials, advantages and disadvantages. Examples of application areas in design, planning, manufacturing, biomedical engineering, art and architecture are also given. The book includes several related problems so that the reader can test his or her understanding of the topics. New to this edition, the included CD-ROM presents animated illustrations of the working principles of today's key RP processes.
Solid Modeling and Applications Woodhead Publishing
3D Printing in Medicine examines the emerging market of 3D-printed biomaterials and its clinical applications. With a particular focus on both commercial and premarket tools, the book looks at their applications within medicine and the future outlook for the field. The book begins with a discussion of the fundamentals of 3D printing, including topics such as materials, and hardware. Chapters go on to cover applications within medicine such as computational analysis of 3D printed constructs, personalized 3D printing and 3D cell and organ printing. The concluding chapters in the book review the applications of 3D printing in diagnostics, drug development, 3D-printed disease models and 3D printers for surgical practice. With a strong focus on the translation of 3D printing technology to a clinical setting, this book is a valuable resource for scientists and engineers working in biomaterial, biomedical, and nanotechnology based industries and academia. Provides a comprehensive and authoritative overview of all the medical applications of 3D printing biomaterials and technologies Focuses on the emerging market of 3D printed biomaterials in clinical applications Reviews both commercial and under development materials, tools, their applications, and future evolution
3D printing and the intellectual property system BoD – Books on Demand
3D industrial printing has become mainstream in manufacturing. This unique book is the first to focus on polymers as the printing material. The scientific literature with respect to 3D printing is collated in this monograph. The book opens with a chapter on foundational issues such and presents

a broad overview of 3D printing procedures and the materials used therein. In particular, the methods of 3d printing are discussed and the polymers and composites used for 3d printing are detailed. The book details the main fields of applications areas which include electric and magnetic uses, medical applications, and pharmaceutical applications. Electric and magnetic uses include electronic materials, actuators, piezoelectric materials, antennas, batteries and fuel cells. Medical applications are organ manufacturing, bone repair materials, drug-eluting coronary stents, and dental applications. The pharmaceutical applications are composite tablets, transdermal drug delivery, and patient-specific liquid capsules. A special chapter deals with the growing aircraft and automotive uses for 3D printing, such as with manufacturing of aircraft parts and aircraft cabins. In the field of cars, 3D printing is gaining importance for automotive parts (brake components, drives), for the fabrication of automotive repair systems, and even 3D printed vehicles.

3D Concrete Printing Technology CRC Press

Now in its third edition, Fundamentals of Microfabrication and Nanotechnology continues to provide the most complete MEMS coverage available. Thoroughly revised and updated the new edition of this perennial bestseller has been expanded to three volumes, reflecting the substantial growth of this field. It includes a wealth of theoretical and practical information on nanotechnology and NEMS and offers background and comprehensive information on materials, processes, and manufacturing options. The first volume offers a rigorous theoretical treatment of micro- and nanosciences, and includes sections on solid-state physics, quantum mechanics, crystallography, and fluidics. The second volume presents a very large set of manufacturing techniques for micro- and nanofabrication and covers different forms of lithography, material removal processes, and additive technologies. The third volume focuses on manufacturing techniques and applications of Bio-MEMS and Bio-NEMS. Illustrated in color throughout, this seminal work is a cogent instructional text, providing classroom and self-learners with worked-out examples and end-of-chapter problems. The author characterizes and defines major research areas and illustrates them with examples pulled from the most recent literature and from his own work.

3D Industrial Printing with Polymers John Wiley & Sons

Digital equipment in all dental practices is commonplace. From digital imaging through electronic recordkeeping, general dentists and specialists are seeing more accurate diagnoses, faster treatment times, and lower costs for equipment. Here in one volume is a comprehensive look at the digital technology available, describing indications, contraindications, advantages, disadvantages, limitations, and applications in the various dental fields. Included are digital imaging, digital impressions, digital operative dentistry, digital prosthodontics, digital implant fabrication and placement, and digital applications in endodontics, orthodontics, and oral surgery. The book is ideal for dental students seeking a reference for digital dental technology and for seasoned practitioners and specialists interested in incorporating digital technology in their daily practice.

Additive Manufacturing: Materials, Processes, Quantifications and Applications Springer Nature

In 1984, additive manufacturing represented a new methodology for manipulating matter, consisting of harnessing materials and/or energy to create three-dimensional physical objects. Today, additive manufacturing technologies represent a market of around 5 billion euros per year, with an annual growth between 20 and 30%. Different processes, materials and dimensions (from nanometer to decameter) within additive manufacturing techniques have led to 70,000 publications on this topic and to several thousand patents with applications as wide-ranging as domestic uses. Volume 1 of this series of books presents these different technologies with illustrative industrial examples. In addition to the strengths of 3D methods, this book also covers their weaknesses and the developments envisaged in terms of incremental innovations to overcome them.

Principles and Applications (with Companion Media Pack)Fourth Edition of Rapid Prototyping Fourth Edition Butterworth-Heinemann

This new volume explores the exciting and diverse applications of three-dimensional printing in a variety of industries, including food processing, environmental sciences, biotechnology, medical devices, energy storage, civil engineering, the textile and fashion industry, and more. It describes the various 3D printing methods, the commonly used materials, and the pros and cons. It also presents an overview of the historical development and modern-day trends in additive manufacturing, as well as an exploration of the prospects of 3D printing technology in promoting academic education.

Construction and Building Applications CRC Press

More quality, more flexibility, and less costs seem to be the key to meeting the demands of the global marketplace. The secret to success in this arena lies in the expert execution of the critical tasks in the product definition stage. Prototyping is an essential part of this stage, yet can be very expensive. It must be planned well and use state-o

Additive Manufacturing John Wiley & Sons

This edited book serves to unify the current state of knowledge for 3D printing / Additive Manufacturing and its impact on manufacturing operations. Bringing together leading experts from across the operations and supply chain disciplines the contributions offer a concise, accessible, and focused text for researchers and practitioners alike. Showing how 3DP can be implemented in a multitude of business models, the book explores how to manage 3DP both in the production environment and wider supply chain.

The Technologies and Applications of Rapid Prototyping and Rapid Tooling Elsevier Health Sciences

Latest Edition: 3D Printing and Additive Manufacturing: Principles and Applications. Fifth Edition of Rapid Prototyping. 3D Printing and Additive Manufacturing (AM) has revolutionised how prototypes are made and small batch manufacturing carried out. With additive manufacturing, the strategies used to produce a part change a number of important considerations and limitations previously faced by tool designers and engineers. This textbook is the fourth edition of Rapid Prototyping: Principles and Applications. It covers the key AM processes, the available models and specifications, and their principles, materials, advantages and disadvantages. Examples of application areas in design, planning, manufacturing, biomedical engineering, entertainment, weaponry, art and architecture are also given. The book includes several related problems for the reader to test his or her understanding of the topics. This edition comes with a companion media pack that presents animated illustrations of the working principles of today's key AM processes.

WIPO

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

From Concepts to Achievements John Wiley & Sons

3D Printing of Foods “p>Explore the fascinating realm of 3D food printing and its applications In 3D Printing of Foods, a team of distinguished researchers delivers a comprehensive and eye-opening exploration of the rapidly developing field of 3D food printing. In the book, the authors offer readers an examination of “food printability,” the foundation of 3D food printing. They discuss the enormous research gap in the subject that remains to be addressed and envisage a robust discipline in which food processing techniques, combined with 3D food printing, gives rise to a range of synergistic applications. In addition to treatments of safety challenges and research requirements, the book tackles food industry market trends and consumer preferences, as well as the globalization of printed foods and consumer perception of 3D printed foods. 3D Printing of Foods also explores the integration of electrohydrodynamic processes and encapsulation with 3D food printing. Readers will also find: Thorough introductions to 3D printing technology, 3D printing approaches, and food components and their printability In-depth examinations of the factors affecting the printability of foods, printability and techniques, and natively printable foods Practical discussions of pre-processing of non-printable foods and alternative ingredients used in food printing Comprehensive explorations of 4D printing technology and the applications of 3D food printing technology Perfect for 3D printing professionals and enthusiasts, as well as food scientists, 3D Printing of Foods is an indispensable resource for anyone interested in a one-stop resource addressing this cutting-edge technology with nearly limitless potential.