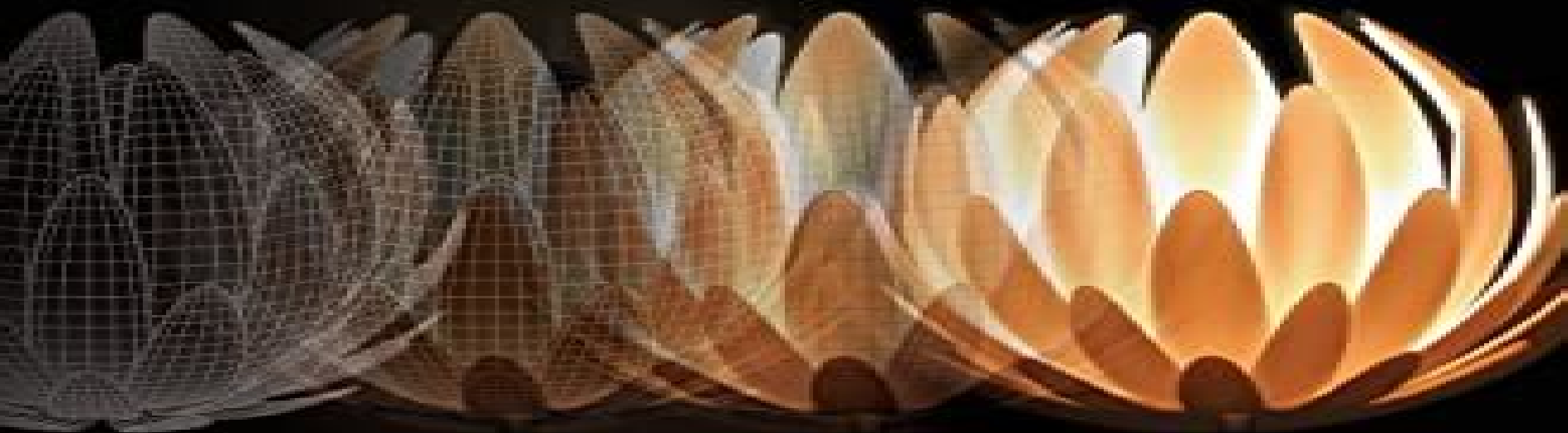


Rapid Manufacturing

AN INDUSTRIAL REVOLUTION FOR THE DIGITAL AGE



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Rapid Manufacturing An Industrial Revolution For The Digital Age

Santo, Loredana, Davim, J. Paulo



Rapid Manufacturing An Industrial Revolution For The Digital Age:

Rapid Manufacturing Neil Hopkinson, Richard Hague, Philip Dickens, 2006-02-22 Rapid Manufacturing is a new area of manufacturing developed from a family of technologies known as Rapid Prototyping. These processes have already had the effect of both improving products and reducing their development time; this in turn resulted in the development of the technology of Rapid Tooling which implemented Rapid Prototyping techniques to improve its own processes. Rapid Manufacturing has developed as the next stage in which the need for tooling is eliminated. It has been shown that it is economically feasible to use existing commercial Rapid Prototyping systems to manufacture series parts in quantities of up to 20 000 and customised parts in quantities of hundreds of thousands. This form of manufacturing can be incredibly cost effective and the process is far more flexible than conventional manufacturing. Rapid Manufacturing: An Industrial Revolution for the Digital Age addresses the academic fundamentals of Rapid Manufacturing as well as focussing on case studies and applications across a wide range of industry sectors. As a technology that allows manufacturers to create products without tools, it enables previously impossible geometries to be made. This book is abundant with images depicting the fantastic array of products that are now being commercially manufactured using these technologies. Includes contributions from leading researchers working at the forefront of industry. Features detailed illustrations throughout. Rapid Manufacturing: An Industrial Revolution for the Digital Age is a groundbreaking text that provides excellent coverage of this fast emerging industry. It will interest manufacturing industry practitioners in research and development, product design and materials science as well as having a theoretical appeal to researchers and post graduate students in manufacturing engineering, product design, CAD, CAM and CIM.

Virtual and Rapid Manufacturing Paulo Jorge da Silva, Bartolo, Mateus Artur Jorge, Fernando da Conceicao Batista, Henrique Amorim Almeida, Joao Manuel Matias, Joel Correia Vasco, Jorge Brites Gaspar, Mario Antonio Correia, Nuno Carpinteiro, Andre, Nuno Fernandes Alves, Paulo Parente Novo, Pedro Goncalves Martinho, Rui Adriano Carvalho, 2007-09-17 Collection of 120 peer reviewed papers that were presented at the 3rd International Conference on Advanced Research in Virtual and Rapid Prototyping held in Leiria, Portugal, in September 2007. Essential reading for all those working on V RP, focused on inducing increased collaboration between industry and academia. In addition to key

Product Lifecycle Management in the Era of Internet of Things Abdelaziz Bouras, Benoit Eynard, Sebti Foufou, Klaus-Dieter Thoben, 2016-04-20 This book constitutes the refereed proceedings of the 12th IFIP WG 5.1 International Conference on Product Lifecycle Management (PLM 2015) held in Doha, Qatar, in October 2015. The 79 revised full papers were carefully reviewed and selected from 130 submissions. The papers are organized in the following topical sections: smart products, assessment approaches, PLM maturity, building information modeling (BIM), languages and ontologies, product service systems, future factory, knowledge creation and management, simulation and virtual environments, sustainability and systems improvement, configuration and engineering change, education studies, cyber physical and smart systems design, and

integration issues and PLM processes and applications *Knowledge Economy and the City* Ali Madanipour, 2013-03-01 This book explores the relationship between space and economy the spatial expressions of the knowledge economy The capitalist industrial economy produced its own space which differed radically from its predecessor agrarian and mercantile economies If a new knowledge based economy is emerging it is similarly expected to produce its own space to suit the new circumstances of production and consumption If these spatial expressions do exist even if in incomplete and partial forms they are likely to be the model for the future of cities *Research in Mass Customization and Personalization* Mitchell, Frank T. Piller, 2009-12-01 A growing heterogeneity of demand the advent of long tail markets exploding product complexities and the rise of creative consumers are challenging companies in all industries to find new strategies to address these trends Mass customization MC has emerged in the last decade as the premier strategy for companies in all branches of industry to profit from heterogeneity of demand and a broad scope of other customer demands The research and practical experience collected in this book presents the latest thinking on how to make mass customization work More than 50 authors from academia and management debate on what is viable now what did not work in the past and what lurks just below the radar in mass customization personalization and related fields Edited by two leading authorities in the field of mass customization both volumes of the book discuss among many other themes the latest research and insights on customization strategies product design for mass customization virtual models co design toolkits customization value measurement open source architecture customization communities and MC supply chains Through a number of detailed case studies prominent examples of mass customization are explained and evaluated in larger context and perspective **Advances in Production Management Systems: Innovative Production Management Towards Sustainable Growth** Shigeki Umeda, Masaru Nakano, Hajime Mizuyama, Hironori Hibino, Dimitris Kiritsis, Gregor von Cieminski, 2015-08-17 The two volumes IFIP AICT 459 and 460 constitute the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems APMS 2015 held in Tokyo Japan in September 2015 The 163 revised full papers were carefully reviewed and selected from 185 submissions They are organized in the following topical sections collaborative networks globalization and production management knowledge based production management project management engineering management and quality management sustainability and production management co creating sustainable business processes and ecosystems open cloud computing architecture for smart manufacturing and cyber physical production systems the practitioner's view on innovative production management towards sustainable growth the role of additive manufacturing in value chain reconfiguration and sustainability operations management in engineer to order manufacturing lean production sustainable system design for green products cloud based manufacturing ontology aided production towards open and knowledge driven planning and control product service lifecycle management knowledge driven innovation and social implications and service engineering *Algorithm-Driven Truss Topology Optimization for Additive Manufacturing* Christian Reintjes, 2022-02-01

Since Additive Manufacturing AM techniques allow the manufacture of complex shaped structures the combination of lightweight construction topology optimization and AM is of significant interest Besides the established continuum topology optimization methods less attention is paid to algorithm driven optimization based on linear optimization which can also be used for topology optimization of truss like structures To overcome this shortcoming we combined linear optimization Computer Aided Design CAD numerical shape optimization and numerical simulation into an algorithm driven product design process for additively manufactured truss like structures With our Ansys SpaceClaim add in construcTOR which is capable of obtaining ready for machine interpretation CAD data of truss like structures out of raw mathematical optimization data the high performance of heuristic based optimization algorithms implemented in linear programming software is now available to the CAD community

Additive Manufacturing Pulak Mohan Pandey, Nishant K. Singh, Yashvir Singh, 2023-02-06 The text explores the development use and effect of additive manufacturing and digital manufacturing technologies for diverse applications It will serve as an ideal reference text for graduate students and academic researchers in diverse engineering fields including industrial manufacturing and materials science This book Discusses the application of 3D virtual models to lasers electron beams and computer controlled additive manufacturing machines Covers applications of additive manufacturing in diverse areas including healthcare electronics engineering and production engineering Explains the use of additive manufacturing for biocomposites and functionally graded materials Highlights rapid manufacturing of metallic components using 3D printing Illustrates production and optimization of dental crowns using additive manufacturing This book covers recent developments in manufacturing technology such as additive manufacturing 3D printing rapid prototyping production process operations and manufacturing sustainability The text further emphasizes the use of additive manufacturing for biocomposites and functionally graded materials It will serve as an ideal reference text for graduate students and academic researchers in the fields of industrial engineering manufacturing engineering automotive engineering aerospace engineering and materials science

Design for Personalisation Iryna Kuksa, Tom Fisher, 2017-05-18 The principle of personalisation appears in a range of current debates among design professionals healthcare providers and educationalists about the implications of new technologies and approaches to consumer sovereignty for mass provision The potential of new technologies implies systems of provision that offer bespoke support to their users tailoring services and experiences to suit individual needs The assumption that individual choice automatically increases wellbeing has underlain the re design of public services Ubiquitous personalisation in screen based environments gives individuals the sense that their personality is reflected back at them Advances in Artificial Intelligence mean our personal intelligent agents have begun to acquire personality Given its prevalence it is appropriate to identify the scope of this phenomenon that is altering our relationship to the non human world This book presents taxonomy of personalisation and its potential consequences for the design profession as well as its ethical and political dimensions through a collection of essays from a range of academic

perspectives The thought provoking introduction conclusion and nine chapters present a well balanced mixture of in depth literature review and practical examples to deepen our understanding of the consequences of personalisation for our professional and personal lives Collectively this book points towards the implications of personalisation for design led social innovation This will be valuable reading for professionals in the design industry and health provision as well as students of product design fashion and sociology **3D Printing: Breakthroughs in Research and Practice** Management Association, Information Resources,2016-10-06 The advancement of modern technology has allowed for impressive developments in manufacturing processes Out of these developments 3D printing has emerged as a new method 3D Printing Breakthroughs in Research and Practice is a comprehensive reference source for the latest research and advances on 3D printing processes technologies and methods Highlighting emerging perspectives on manufacturing and industrial applications this book is ideally designed for professionals practitioners students and researchers interested in the latest developments and uses of 3D printing **Law, Regulation and Governance in the Information Society** Maurizio Borghi,Roger Brownsword,2022-12-30 This edited collection seeks to map the landscape of contemporary informational interests to evaluate a range of recognised and putative rights and wrongs associated with modern information societies and to consider how law regulation and governance should be deployed in response New technologies and new applications constantly disrupt our values our framing of our world and our sense of where we are and who we are In our information societies we entertain mixed hopes and expectations as well as significant fears and concerns At the root of these there are a number of informational interests on the basis of which certain rights are claimed and particular wrongs denounced This book addresses these interests considering them as relating primarily to the integrity of the informational ecosystem to the accessibility accuracy and authenticity of public information and to our individual ability to control the outward and inward flows of information that relates directly to ourselves Covering a wide range of subjects the book s interrogation of our contemporary information society is oriented around two questions first whether the information society in which we live is the kind of society that we think it should be and second if not what we can reasonably expect law regulation and governance to do in providing the basis for improving it This book will be of considerable interest to those working at the intersection of law and technology as well as others concerned with the legal political and social aspects of our information society

Post-Processing of Parts and Components Fabricated by Fused Deposition Modeling Vinayak R. Malik,Vivek Kumar Tiwary,Arunkumar Padmakumar,2024-11-15 This book describes several post processing techniques that can be used to enhance the mechanical strength isotropy surface quality and dimensional accuracy of 3D printed components using the Fused Deposition Modeling FDM technique It also discusses the usage of adhesives interlocks fasteners ultrasonic frictional and microwave energy to join FDM 3D printed parts Furthermore the book also covers the scope of future research and challenges in the post processing of FDM parts as well as some of the most popular approaches in the field such as Big Area

Additive Manufacturing BAAM Machine Learning and Internet of Things IoT Features Covers all necessary details related to post processing of Fused Deposition Modeling FDM parts Provides an overview of various joining techniques for 3D printed FDM parts Focuses on the latest developments related to sustainability and optimization in post processing of FDM parts Includes microwave joining of 3D printed parts Reviews case studies on cutting edge research innovation and development aspects This book is aimed at researchers and graduate students in additive manufacturing materials science as well as manufacturing engineering

Conservation Science 2E Paul Garside, Emma Richardson, 2021-12-03 With contributions by scientists working in the museum and heritage sector this textbook provides an overview of the analytical techniques and data processing methods used in modern conservation science

Additive Manufacturing, Second Edition Amit Bandyopadhyay, Susmita Bose, 2019-10-16 The field of additive manufacturing is growing dynamically as the interest is persisting from manufacturing sector including other sectors as well Conceptually additive manufacturing is a way to build parts without using any part specific tooling or dies from the computer aided design CAD file of the part Second edition of Additive Manufacturing highlights the latest advancements in the field taking an application oriented approach It includes new material on traditional polymer based rapid prototyping technologies additive manufacturing of metals and alloys including related design issues Each chapter comes with suggested reading questions for instructors and PowerPoint slides

Additive Manufacturing Steinar Westhrin Killi, 2017-09-07 Additive manufacturing has matured from rapid prototyping through the now popular and maker oriented 3D printing recently commercialized and marketed The terms describing this technology have changed over time from rapid prototyping to rapid manufacturing to additive manufacturing which reflects largely a focus on technology This book discusses the uptake use and impact of the additive manufacturing and digital fabrication technology It augments technical and business oriented trends with those in product design and design studies It includes a mix of disciplinary and transdisciplinary trends and is rich in case and design material The chapters cover a range of design centered views on additive manufacturing that are rarely addressed in the main conferences and publications which are still mostly and importantly concerned with tools technologies and technical development The chapters also reflect dialogues about transdisciplinarity and the inclusion of domains such as business and aesthetics narrative and technology critique This is a great textbook for graduate students of design engineering computer science marketing and technology and also for those who are not students but are curious about and interested in what 3D printing really can be used for in the near future

Additive Manufacturing Technologies Ian Gibson, David Rosen, Brent Stucker, Mahyar Khorasani, 2020-11-10 This textbook covers in detail digitally driven methods for adding materials together to form parts A conceptual overview of additive manufacturing is given beginning with the fundamentals so that readers can get up to speed quickly Well established and emerging applications such as rapid prototyping micro scale manufacturing medical applications aerospace manufacturing rapid tooling and direct digital manufacturing are also discussed This book provides a comprehensive

overview of additive manufacturing technologies as well as relevant supporting technologies such as software systems vacuum casting investment casting plating infiltration and other systems Reflects recent developments and trends and adheres to the ASTM SI and other standards Includes chapters on topics that span the entire AM value chain including process selection software post processing industrial drivers for AM and more Provides a broad range of technical questions to ensure comprehensive understanding of the concepts covered

Power Ultrasonics Juan A. Gallego-Juarez, Karl F. Graff, Margaret Lucas, 2023-04-06 *Power Ultrasonics Applications of High Intensity Ultrasound Second Edition* provides a comprehensive reference on the fundamentals processing engineering medical food and pharmaceutical applications of ultrasonic processing Chapters cover the fundamentals of nonlinear propagation of ultrasonic waves in fluids and solids discuss the materials and designs of power ultrasonic transducers and devices identify applications of high power ultrasound in materials engineering and mechanical engineering food processing technology environmental monitoring and remediation and industrial and chemical processing including pharmaceuticals medicine and biotechnology and cover developments in ultrasound therapy and surgery applications The new edition also includes recent advances in modeling characterization and measurement techniques along with additive manufacturing and micromanufacturing This is an invaluable reference for graduate students and researchers working in the disciplines of materials science and engineering In addition those working on the physics of acoustics sound and ultrasound sonochemistry acoustic engineering and industrial process technology R D managers production and biomedical engineers will find it useful to their work Covers the fundamentals of nonlinear propagation of ultrasonic waves in fluids and solids Discusses the materials and designs of power ultrasonic transducers and devices Considers state of the art power sonic applications across a wide range of industries

Global Product Development Alain Bernard, 2011-05-05 This book of proceedings is the synthesis of all the papers including keynotes presented during the 20th CIRP Design conference The book is structured with respect to several topics in fact the main topics that serve at structuring the program For each of them high quality papers are provided The main topic of the conference was Global Product Development This includes technical organizational informational theoretical environmental performance evaluation knowledge management and collaborative aspects Special sessions were related to innovation in particular extraction of knowledge from patents

Design for Health Emmanuel Tsekles, Rachel Cooper, 2017-05-18 One of the most complex global challenges is improving wellbeing and developing strategies for promoting health or preventing illbeing of the population The role of designers in indirectly supporting the promotion of healthy lifestyles or in their contribution to illbeing has emerged This means designers now need to consider both morally and ethically how they can ensure that they do no harm and that they might deliberately decide to promote healthy lifestyles and therefore prevent ill health Design for Health illustrates the history of the development of design for health the various design disciplines and domains to which design has contributed Through 26 case studies presented in this book the authors reveal a plethora of design research methodologies

and research methods employed in design for health The editors also present following a thematic analysis of the book chapters seven challenges and seven areas of opportunity that designers are called upon to address within the context of healthcare Furthermore five emergent trends in design in healthcare are presented and discussed This book will be of interest to students of design as well as designers and those working to improve the quality of healthcare

Surface Engineering Techniques and Applications: Research Advancements Santo, Loredana, Davim, J. Paulo, 2014-02-28

Surface engineering includes many facets of materials science that help regulate the function quality and safety of products such as automotive textile and electronic materials New technologies are developing to help enhance the surface performance Surface Engineering Techniques and Applications Research Advancements provides recent developments in surface engineering techniques and applications It details scientific and technological results while also giving insight to current research economic impact and environmental concerns so that academics practitioners and professionals in the field as well as students studying these areas can deepen their understanding of new surface processes

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