



Wohlers Report 2016

3D Printing and Additive Manufacturing State of the Industry
Annual Worldwide Progress Report



Wohlers Report 2016

**Volodymyr Tonkonogyi, Vitalii
Ivanov, Justyna Trojanowska, Gennadii
Oborskyi, Ivan Pavlenko**

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Die Zukunft der Vierten Industriellen Revolution Klaus Schwab, 2019-01-21 Das neue Buch des Gründers und Vorsitzenden des Weltwirtschaftsforums Wir stecken mitten in der Vierten Industriellen Revolution und sie wird alles verändern wie unsere Wirtschaft funktioniert wie wir miteinander umgehen was es bedeutet Mensch zu sein In seinem neuen Buch skizziert der Vorsitzende des Weltwirtschaftsforums Klaus Schwab die wichtigsten Trends der neuen Technologien die die Vierte Industrielle Revolution ausmachen und entscheidend für die Zukunft der Menschheit sein werden Er legt dar wie die daraus entstehenden Chancen bestmöglich für uns genutzt werden können und eine positive und nachhaltige Zukunft gelingen kann

Wohlers Report 2016 Terry T. Wohlers, Tim Caffrey, R. Ian Campbell, 2016

Wissenschaft im Angesicht »großer gesellschaftlicher Herausforderungen« Birgitt Riegraf, Anna-Lena Berscheid, 2018-03-15 Große gesellschaftliche Herausforderungen unter diesem Begriff werden in europäischen und nationalen Strategiepapieren Themen wie Klimawandel demographische Entwicklung und daraus resultierende steigende Mobilitätsbedürfnisse sowie eine angemessene Gesundheitsversorgung verhandelt Es gibt jedoch unterschiedliche Vorstellungen darüber welchen Beitrag die Wissenschaften leisten können und sollen Wie gelingt der Austausch zwischen Wissenschaft und Gesellschaft Wie lassen sich gesellschaftspolitische Handlungsfelder über wissenschaftliche Erkenntnisse identifizieren Um diese Fragen zu beantworten ist disziplinübergreifendes Forschen wichtig und notwendig Die Beiträge des Bandes zeigen am Beispiel der Konstruktionsphilosophie des Leichtbaus wie Forschung zu Ressourceneffizienz umweltfreundlicher Mobilität Klimaschutz und Medizintechnik aussieht und aussehen kann und weisen auf die Schwierigkeiten und Grenzen einer inter- und transdisziplinären Forschung hin

Systematische Eignungsanalyse zum Einsatz additiver Fertigungsverfahren Julian Ilg, 2018-12-18 Ziel der Arbeit von Julian Ilg ist die Entwicklung einer systematischen Eignungsanalyse zum Einsatz additiver Fertigungsverfahren im unternehmensspezifischen Kontext Der Autor fasst die gängigsten additiven Fertigungsverfahren zusammen und liefert einen Überblick über die derzeitige Anwendung dieser Verfahren sowie über die Herausforderungen bei deren Einsatz am Beispiel von Unternehmen aus der Medizintechnik Basierend auf diesen Erkenntnissen gelingt es dem Autor interessierten Unternehmen eine quantifizierende Entscheidungshilfe zu liefern die gleichermaßen sowohl die ingenieurwissenschaftlichen Punkte als auch die wirtschaftlichen Aspekte beim Umstieg vom herkömmlichen Herstellungsverfahren auf additive Fertigungsverfahren berücksichtigt

Biologische Transformation Reimund Neugebauer, 2019-03-12 Für das Jahr 2050 erwarten wir eine Erdbevölkerung von 9,8 Milliarden Menschen die letztlich alle nach Wohlstand streben Auf der Suche nach einer effizienteren Produktion müssen daher neue Wege gefunden werden Die bisherige Forschung zeigt dass das evolutionär entstandene Inventar der Biologie seine Produkte Verfahren Prinzipien und Werkzeuge die Technik von heute enorm beeinflussen kann Die biologisch orientierte Konzeption technischer Entwicklungen mit dem Ziel einer besonders innovativen und nachhaltigen Wertschöpfung wird heute als Biologische Transformation

zusammengefasst Sie führt zu hochfunktionellen Produkten mit bestechenden Eigenschaften die zugleich ressourcenschonend hergestellt und benutzt werden können Im Sinne der Verantwortung für das Wohl aller Menschen ist die Biologische Transformation daher ein Weg den die angewandte Forschung gehen muss Die Fraunhofer Gesellschaft hat das entwicklungstechnische Potenzial der Biologischen Transformation erkannt und sieht ihre Aufgabe darin nicht nur die einschlägige Forschung voranzutreiben sondern auch die Wahrnehmung des Themas in der Bevölkerung zu fördern

Automation 2018 Roman Szewczyk, Cezary Zieliński, Małgorzata Kaliczyńska, 2018-03-07 This book consists of papers presented at Automation 2018 an international conference held in Warsaw from March 21 to 23 2018 It discusses the radical technological changes occurring due to the INDUSTRY 4.0 with a focus on offering a better understanding of the Fourth Industrial Revolution Each chapter presents a detailed analysis of interdisciplinary knowledge numerical modeling and simulation as well as the application of cyber physical systems where information technology and physical devices create synergic systems leading to unprecedented efficiency The theoretical results practical solutions and guidelines presented are valuable for both researchers working in the area of engineering sciences and practitioners looking for solutions to industrial problems

Emerging Technologies in Polymer Processing Suprakas Sinha Ray, Ritima Banerjee, Jayita Bandyopadhyay, Jonathan Tersur Orasugh, 2024-12-09 This book integrates fundamental knowledge about computational modeling rheology and characterization of polymeric materials with a thorough and critical overview of advanced and emerging manufacturing techniques in polymer processing including significant past and recent advances All concepts are illustrated with case studies so as to enable the reader to correlate theory with practical applications It is intended for students researchers and R D professionals engaged in developing advanced polymeric materials and products Conventional polymer processing has been revolutionized by technologies such as computational modeling machine learning and advanced machine design On the other hand newer advanced manufacturing techniques such as 3D printing 4D printing electrospinning and nanocellular foaming have emerged to enable manufacture of products that would be impossible to produce by conventional methods This book covers both of these aspects as well as application specific polymer processing techniques employed in the field of tissue engineering Furthermore it addresses fundamental issues related to advanced and emerging processing techniques of sustainable polymeric materials and their nanocomposites which could shape future research and industrial application of these materials for sustainable future development

Content Role of Rheology in Advanced Polymer Processing Precision Injection Molding Additive Manufacturing Electrospinning Nanofiber Fabrication Technology Ultrasound Assisted Processing Plasma Treatment Technology Nanocellular Processing AI Enabled Polymer Processing Technology Fabrication of Microfluidic Devices Spray Coating Freeze Drying Spray Drying and Spray Freeze Drying

Smart Metropolitan Regional Development T.M. Vinod Kumar, 2018-05-31 This book discusses the concept and practice of a smart metropolitan region and how smart cities promote healthy economic and spatial development It highlights how smart metropolitan regional

development can energize reorganize and transform the legacy economy into a smart economy how it can help embrace Information and Communications Technology ICT and how it can foster a shared economy In addition it outlines how the five pillars of the third industrial revolution can be achieved by smart communities In addition the book draws on 16 in depth city case studies from ten countries to explore the state of the art regarding the smart economy in smart cities and to apply the lessons learned to shape smart metropolitan economic and spatial development Sustainable Design and Manufacturing Steffen G. Scholz, Robert J. Howlett, Rossi Setchi, 2021-09-17 This book consists of peer reviewed papers presented at the International Conference on Sustainable Design and Manufacturing SDM 2021 Leading edge research into sustainable design and manufacturing aims to enable the manufacturing industry to grow by adopting more advanced technologies and at the same time improve its sustainability by reducing its environmental impact Relevant themes and topics include sustainable design innovation and services sustainable manufacturing processes and technology sustainable manufacturing systems and enterprises and decision support for sustainability Application areas are wide and varied The book will provide an excellent overview of the latest developments in the sustainable design and manufacturing area Innovations in Additive Manufacturing M. Adam Khan, J. T. Winowlin Jappes, 2022-01-31 This book presents the history fundamentals process development applications post processing and experimental results from additive manufacturing The chapters cover surface treatments modification advancements in heat treatment mechanical hardening and its effect on the material properties This book also presents content on simulation modeling and optimization of materials processing and surface engineering techniques First RILEM International Conference on Concrete and Digital Fabrication - Digital Concrete 2018 Timothy Wangler, Robert J. Flatt, 2018-08-29 Digital fabrication has been termed the third industrial revolution and is promising to revolutionize many disciplines including most recently the construction sector Both academia and industry see immense promise in cementitious materials which lend themselves well to additive manufacturing techniques for digital fabrication in construction With this recent trend and high interest in this new research field the 1st RILEM International Conference on Concrete and Digital Fabrication Digital Concrete 2018 was organized Since 2014 ETH Zurich has been host for the Swiss National Centre for Competence in Research NCCR for Digital Fabrication in Architecture which is highly interdisciplinary and unique worldwide In 2018 this NCCR opened the DFAB House which incorporates many digital fabrication principles for architecture It is also responsible for the 600 m2 Robotic Fabrication Lab and the first robotically built roof in the world Held in tandem with Rob Arch 2018 the leading conference for robotics in architecture RILEM deemed it the right time to combine forces at this new conference which will be the first large conference to feature the work of the recently created RILEM Technical Committee on Digital Fabrication with Cement based Materials among other leaders in this new field worldwide This conference proceedings brings together papers that take into account the findings in this new area Papers reflect the varying themes of the conference including Materials Processing Structure and Applications

Handbook of Laser-Based Sustainable Surface Modification and Manufacturing Techniques Hitesh

Vasudev,Chander Prakash,2023-07-05 This handbook provides an insight into the advancements in surface engineering methods addressing the microstructural features properties mechanisms of surface degradation failures and tribological performance of the components Emphasis is placed on the use of laser cladding methods because they make it simple to deposit new classes of materials such nano composites nanotubes and smart materials Handbook of Laser Based Sustainable Surface Modification and Manufacturing Techniques discusses the main mechanism behind the surface degradation of structural components in strenuous environments It highlights the capacity of laser cladding to operate on a wide range of substrate materials and shapes as well as presents how laser cladding can offer new possibilities in the reconditioning of components and how in many cases these approaches are the only solution for economic efficiency The handbook illustrates how the type of laser laser optics and the parameters of the process can be efficiently selected and thus the number of applications of laser cladding and its applications can be increased The standard methods of testing used for various types of biomedical devices and tools as well as the advantages of combining laser cladding with simultaneous induction heating are described as well within this handbook Features Discusses the role of claddings fabricated with laser technique to withstand wear and corrosion Highlights the role of laser in the manufacturing of alloys and recent advancements in laser based additive manufacturing processes Presents the possibilities applications and challenges in laser surfacing Illustrates the post treatments of powders and coatings and case studies related to laser surface technology Offers the standard methods of testing applied to various types of biomedical devices and tools Goes over the advantages of combining laser cladding with simultaneous induction heating The technical outcomes of these surface engineering methods are helpful for academics students and professionals who are working in this field as this enlightens their understanding of the performance of these latest processes The audience is broad and multidisciplinary

Critical Infrastructure Protection XI Mason Rice,Sujeet

Shenoi,2017-11-20 The information infrastructure comprising computers embedded devices networks and software systems is vital to operations in every sector chemicals commercial facilities communications critical manufacturing dams defense industrial base emergency services energy financial services food and agriculture government facilities healthcare and public health information technology nuclear reactors materials and waste transportation systems and water and wastewater systems Global business and industry governments indeed society itself cannot function if major components of the critical information infrastructure are degraded disabled or destroyed Critical Infrastructure Protection XI describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection Also it highlights the importance of weaving science technology and policy in crafting sophisticated yet practical solutions that will help secure information computer and network assets in the various critical infrastructure sectors Areas of coverage include Infrastructure Protection Infrastructure Modeling and Simulation Industrial Control System Security and Internet of Things

Security This book is the eleventh volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 10 on Critical Infrastructure Protection an international community of scientists engineers practitioners and policy makers dedicated to advancing research development and implementation efforts focused on infrastructure protection The book contains a selection of sixteen edited papers from the Eleventh Annual IFIP WG 11 10 International Conference on Critical Infrastructure Protection held at SRI International Arlington Virginia USA in the spring of 2017 Critical Infrastructure Protection XI is an important resource for researchers faculty members and graduate students as well as for policy makers practitioners and other individuals with interests in homeland security **Safety of Sea Transportation** Adam Weintrit,Tomasz Neumann,2017-07-14 Safety of Sea Transportation is the second of two Conference Proceedings of TransNav 2017 June 21 23 in Gdynia Poland Safety of Sea Transportation will focus on the following themes Sustainability intermodal and multimodal transportation Safety and hydrodynamic study of hydrotechnical structures Bunkering and fuel consumption Gases emission water pollution and environmental protection Occupational accidents Supply chain of blocks and spare parts Electrotechnical problems Ships stability and loading strength Cargo loading and port operations Maritime Education and Training MET Human factor crew manning and seafarers problems Economic analysis Mathematical models methods and algorithms Fishery Legal aspects Aviation **Additive Fertigung von Bauteilen und Strukturen** Hans Albert Richard,Britta Schramm,Thomas Zipsner,2019-09-19 Dieses Fachbuch vermittelt in insgesamt 13 Einzelbeiträgen die Möglichkeiten und Grenzen der Additiven Fertigung im Hinblick auf die Gestaltung von realen Bauteilen und Strukturen Die Autoren sind Experten aus verschiedenen Fachgebieten von Hochschulen Forschungseinrichtungen und Unternehmen **Advanced Manufacturing Processes III** Volodymyr Tonkonogyi,Vitalii Ivanov,Justyna Trojanowska,Gennadii Oborskyi,Ivan Pavlenko,2021-11-17 This book offers a timely snapshot of innovative research and developments at the interface between manufacturing materials and mechanical engineering and quality assurance It covers a wide range of manufacturing processes such as grinding boring milling turning woodworking coatings including additive manufacturing It focuses on laser ultrasonic and combined laser ultrasonic hardening treatments and dispersion hardening It describes tribology and functional analysis of coatings separation purification and filtration processes as well as ecological recirculation and electrohydraulic activation highlighting the growing role of digital twins optimization and lifecycle management methods and quality inspection processes It also covers cutting edge heat and mass transfer technologies and energy management methods Gathering the best papers presented at the 3rd Grabchenko's International Conference on Advanced Manufacturing Processes InterPartner 2021 held in Odessa Ukraine on September 7 10 2021 this book offers a timely overview and extensive information on trends and technologies in manufacturing mechanical and materials engineering and quality assurance It is also intended to facilitate communication and collaboration between different groups working on similar topics and to offer a bridge between academic and industrial researchers **New Horizons in**

Metallurgy, Materials and Manufacturing Amber Shrivastava, Amit Arora, Chandan Srivastava, Nikhil Dhawan, Sudhanshu Shekhar Singh, 2022-10-08 This book presents an overview of the evolution and opportunities associated with traditional as well as upcoming fields in the areas of materials metallurgy and manufacturing There are a lot of interesting fields at this trijunction such as alloy design bio materials composites high entropy alloys sensors electronic materials and materials degradation The progress in these fields is further fuelled by the advances in the analysis and fabrication techniques such as correlative microscopy additive manufacturing and surface engineering This book discusses the above topics fields covering advanced analysis techniques fabrication methods and various technological applications Every chapter walks through the basics of the respective field and comprehensively discusses the current developments and future avenues to arrive at a point where the reader acquires an overall view of the field Special emphasis is given to the scientific fundamentals and application potential in a way that readers of all backgrounds can get benefited The chapters connect the current developments with the future avenues to help the researchers foresee the future technologies in their respective fields This text will appeal to experienced researchers practitioners and students alike

Cost Engineering and Value Management Dirk Hecht, Dirk Weber, 2025-08-20 Cost und Value Engineering hat sich l ngst als relevantes Instrument der erfolgreichen Unternehmensf hrung etabliert Mittels wissenschaftlicher und praktischer Methoden aus unterschiedlichen Disziplinen lassen sich der Wert sowie die Kosten von Produkten und Serviceleistungen ber den gesamten Lebenszyklus systematisch optimieren Dabei werden Kompetenzen aus Kostenrechnung Produktion Produktentwicklung sowie Projekt und Risikomanagement mit wertsch pfungsorientierten Ans tzen vereint Dies schafft auch die Voraussetzungen um durch digitale Werkzeuge einen substanziellen Beitrag zur globalen Nachhaltigkeit leisten zu k nnen Der Sammelband beleuchtet das Management externer Lieferantenbeziehungen und veranschaulicht die Methoden des Cost und Value Engineerings anhand aktueller Praxisbeispiele

Industrializing Additive Manufacturing - Proceedings of Additive Manufacturing in Products and Applications - AMPA2017 Mirko Meboldt, Christoph Klahn, 2017-09-05 These proceedings exchange ideas and knowledge among engineers designers and managers on how to support real world value chains by developing additive manufactured series products The papers from the conference show a holistic multidisciplinary view

Additive Manufacturing Technologies and Applications Salvatore Brischetto, Paolo Maggiore, Carlo Giovanni Ferro, 2018-07-09 This book is a printed edition of the Special Issue Additive Manufacturing Technologies and Applications that was published in Technologies

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