

Wohlers Report 2025: Highlights



Worldwide revenues

Global revenues from AM reached \$21.9 billion in 2024, an increase of 9.1% from 20.0 billion in 2023.

9.1% **\$21.9 b**

Global revenue
growth

Global AM
market

Regional observations

There was a notable difference in revenue growth between companies depending on region, with APAC showing significant outperformance.



Category performance

System manufacturers saw a decline in revenue, while material producers saw the highest growth.

-1.5%

System
manufacturers

11.6%

Service
providers

20.1%

Material
producers

10.2%

Software
producers

Wohlers Report 2016

Plamen Dinev



Wohlers Report 2016:

Wohlers Report 2016 Terry T. Wohlers, Tim Caffrey, R. Ian Campbell, 2016 **Quality Analysis of Additively Manufactured Metals** Javad Kadkhodapour, Siegfried Schmauder, Felix Sajadi, 2022-11-30 Quality Analysis of Additively Manufactured Metals Simulation Approaches Processes and Microstructure Properties provides readers with a firm understanding of the failure and fatigue processes of additively manufactured metals With a focus on computational methods the book analyzes the process microstructure property relationship of these metals and how it affects their quality while also providing numerical analytical and experimental data for material design and investigation optimization It outlines basic additive manufacturing processes for metals strategies for modeling the microstructural features of metals and how these features differ based on the manufacturing process and more Improvement of additively manufactured metals through predictive simulation methods and microdamage and micro failure in quasi static and cyclic loading scenarios are covered as are topology optimization methods and residual stress analysis techniques The book concludes with a section featuring case studies looking at additively manufactured metals in automotive biomedical and aerospace settings Provides insights and outlines techniques for analyzing why additively manufactured metals fail and strategies for avoiding those failures Defines key terms and concepts related to the failure analysis quality assurance and optimization processes of additively manufactured metals Includes simulation results experimental data and case studies Intellectual Property and Desktop 3D Printing Plamen Dinev, 2025-12-11 This innovative book explores the world of 3D printing from the perspective of intellectual property law tackling theory and practice As 3D printing digitises tangibles and equips individual users with access to design and manufacturing tools it also raises several pressing legal and policy issues Does the IP framework largely designed in the analogue age adequately regulate the operation of the technology How should the law respond to piracy in a digital environment where copying is the norm not the exception What are the community's experiences and views regarding IP Is the law actually a concern To fully address these questions the book begins with a contextual overview of 3D printing's history and broader socio economic impact It explains why the desktop side of the technology is likely to be especially problematic when it comes to IP law and highlights key areas of concern Drawing on its rich empirical data featuring world leading experts engineers lawyers and users it offers illuminating insights into the experiences and perspectives of stakeholders before finally considering potential regulatory responses Original and forward looking this book is essential reading for academics practitioners 3D printing users and any reader interested in the rapidly evolving field of law and technology Additive Manufacturing for the Aerospace Industry Francis H. Froes, Rodney Boyer, 2019-02-15 Additive Manufacturing for the Aerospace Industry explores the design processing metallurgy and applications of additive manufacturing AM within the aerospace industry The book's editors have assembled an international team of experts who discuss recent developments and the future prospects of additive manufacturing The work includes a review of the

advantages of AM over conventionally subtractive fabrication including cost considerations Microstructures and mechanical properties are also presented along with examples of components fabricated by AM Readers will find information on a broad range of materials and processes used in additive manufacturing It is ideal reading for those in academia government labs component fabricators and research institutes but will also appeal to all sectors of the aerospace industry Provides information on a broad range of materials and processes used in additive manufacturing Presents recent developments in the design and applications of additive manufacturing specific to the aerospace industry Covers a wide array of materials for use in the additive manufacturing of aerospace parts Discusses current standards in the area of aerospace AM parts

Tools for Green Chemistry, Volume 10 Evan S. Beach, Soumen Kundu, 2017-10-23 Volume 10 in the Handbook of Green Chemistry series provides useful and practical tools databases and laboratory approaches to support chemists working in both academia and industry in achieving their green chemistry goals Among many other helpful techniques covered the authors offer prediction software life cycle assessment methodology and screening tools

Sustainable Manufacturing Kapil Gupta, Konstantinos Salonitis, 2021-03-30 Sustainable Manufacturing examines the overall sustainability of a wide range of manufacturing processes and industrial systems With chapters addressing machining casting additive and gear manufacturing processes and hot topics such as remanufacturing life cycle engineering and recycling this book is the most complete guide to this topic available Drawing on experts in both academia and industry coverage addresses theoretical developments and practical improvements from research and innovations This unique book will advise readers on how to achieve sustainable manufacturing processes and systems and further the clean and safe environment This handbook is a part of the four volume set entitled Handbooks in Advanced Manufacturing The other three address Advanced Machining and Finishing Advanced Welding and Deforming and Additive Manufacturing Provides basic to advanced level information on various aspects of sustainable manufacturing Presents the strategies and techniques to achieve sustainability in numerous areas of manufacturing and industrial engineering such as environmentally benign machining sustainable additive manufacturing remanufacturing and recycling sustainable supply chain and life cycle engineering Combines contributions from experts in academia and industry with the latest research and case studies Explains how to attain a clean green and safe environment via sustainable manufacturing Presents recent developments and suggests future research directions

Direct Digital Manufacturing and Polymers Geoffrey R. Mitchell, Nuno Alves, Artur Mateus, 2019-04-09 2nd International Conference on Direct Digital Manufacturing and Polymers 2nd CDDMAP Selected peer reviewed papers from the 2nd International Conference on Direct Digital Manufacturing and Polymers 2nd CDDMAP May 15 18 2017 Marinha Grande Portugal

Strategic Forum, 1994

Foresight for Digital Development United Nations. Economic and Social Council, 2016

[The 10th International Scientific Conference on Advances in Mechanical Engineering \(ISCAME\)](#) Mihály Csüllög, Tamás Mankovits, 2025-07-03 Selected peer reviewed extended articles based on abstracts presented at The 10th

International Scientific Conference on Advances in Mechanical Engineering ISCAME 2024 Aggregated Book Composite Materials and Material Engineering II Xiao Hong Zhu,2018-08-15 The 3rd International Conference on Composite Materials and Material Engineering ICCMME 2018 Selected peer reviewed papers from the 3rd International Conference on Composite Materials and Material Engineering ICCMME2018 January 26 28 2018 Singapore **Advances in Materials Processing XII** G.J. Liu,Jun Wang,2016-07-04 Selected peer reviewed papers from the 12th Asia Pacific Conference on Materials Processing APCMP2016 June 16 19 2016 Qingdao China *Advanced Research in Area of Materials, Aerospace, Robotics and Modern Manufacturing Systems* Adrian Olaru,2016-12-01 ICMERA 2016 Selected peer reviewed papers from the 6th edition of the International Conference on Aerospace Robotics Manufacturing Systems Mechanical Engineering Biomechatronics and Neurorehabilitation IACSIT IACT UASTRO ICMERA 2016 November 4 6 2016 Bucharest Romania U.S. Government Research and Development Reports ,1966 *Report to ... General Assembly* Illinois. Department of Central Management Services,2002 □□□□ ,2016 **U.S. Government Research & Development Reports** ,1966 Bibliography of Scientific and Industrial Reports ,1948-04-02 **Government Reports Announcements** ,1966 Page's Nebraska Digest Ernest Clifford Page,1902

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Table of Contents Wohlers Report 2016

1. Understanding the eBook Wohlers Report 2016
 - The Rise of Digital Reading Wohlers Report 2016
 - Advantages of eBooks Over Traditional Books
2. Identifying Wohlers Report 2016
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wohlers Report 2016
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wohlers Report 2016
 - Personalized Recommendations
 - Wohlers Report 2016 User Reviews and Ratings
 - Wohlers Report 2016 and Bestseller Lists
5. Accessing Wohlers Report 2016 Free and Paid eBooks
 - Wohlers Report 2016 Public Domain eBooks
 - Wohlers Report 2016 eBook Subscription Services

- Wohlers Report 2016 Budget-Friendly Options
- 6. Navigating Wohlers Report 2016 eBook Formats
 - ePub, PDF, MOBI, and More
 - Wohlers Report 2016 Compatibility with Devices
 - Wohlers Report 2016 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wohlers Report 2016
 - Highlighting and Note-Taking Wohlers Report 2016
 - Interactive Elements Wohlers Report 2016
- 8. Staying Engaged with Wohlers Report 2016
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wohlers Report 2016
- 9. Balancing eBooks and Physical Books Wohlers Report 2016
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wohlers Report 2016
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Wohlers Report 2016
 - Setting Reading Goals Wohlers Report 2016
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Wohlers Report 2016
 - Fact-Checking eBook Content of Wohlers Report 2016
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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