

# 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

**Xiang Xie**



## **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 digitizes 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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