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Titolo	Additive Manufacturing of Metals : From Fundamental Technology to Rocket Nozzles, Medical Implants, and Custom Jewelry / / by John O. Milewski
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Collana	Springer Series in Materials Science, , 0933-033X ; ; 258
Disciplina	671
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Acknowledgements -- List of Acronyms -- About the Author -- AM Road Map and Hitchhiker's Guide -- Chapter 1: Envision -- Chapter 2: Additive Manufacturing Metal, The Art of the Possible -- Chapter 3: On the Road to AM -- Chapter 4: Understanding Metal for Additive Manufacturing -- Chapter 5: Lasers, Electron Beams, Plasma Arcs -- Chapter 6: Computers, Solid Models, and Robots -- Chapter 7: Origins of 3D Metal Printing -- Chapter 8: Current System Configurations -- Chapter 9: Inspiration to 3D Design -- Chapter 10: Process Development -- Chapter 11: Building, Post Processing, and Inspecting -- Chapter 12: Trends in AM, Government, Industry, Research, Business -- Professional Society and Organization Links -- Glossary -- Bibliography -- AM Machine and Service Resource Links --

Appendix A: Safety in Configuring a 3D Metal Printing Shop --  
Appendix B: Exercises in Metal Fusion -- Appendix C: OpenSCAD  
Programming Example -- Appendix D: 3D Printer Control Code  
Example -- Appendix E: Building an Arc-Based 3D Shape Welding  
System -- Appendix F: Exercises in 3D Printing -- Appendix G: Score  
Chart of AM Skills -- Index.

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## Sommario/riassunto

This engaging volume presents the exciting new technology of additive manufacturing (AM) of metal objects for a broad audience of academic and industry researchers, manufacturing professionals, undergraduate and graduate students, hobbyists, and artists. Innovative applications ranging from rocket nozzles to custom jewelry to medical implants illustrate a new world of freedom in design and fabrication, creating objects otherwise not possible by conventional means. The author describes the various methods and advanced metals used to create high value components, enabling readers to choose which process is best for them. Of particular interest is how harnessing the power of lasers, electron beams, and electric arcs, as directed by advanced computer models, robots, and 3D printing systems, can create otherwise unattainable objects. A timeline depicting the evolution of metalworking, accelerated by the computer and information age, ties AM metal technology to the rapid evolution of global technology trends. Charts, diagrams, and illustrations complement the text to describe the diverse set of technologies brought together in the AM processing of metal. Extensive listing of terms, definitions, and acronyms provides the reader with a quick reference guide to the language of AM metal processing. The book directs the reader to a wealth of internet sites providing further reading and resources, such as vendors and service providers, to jump start those interested in taking the first steps to establishing AM metal capability on whatever scale. The appendix provides hands-on example exercises for those ready to engage in experiential self-directed learning. Provides a solid introduction to the fundamental technologies utilized in AM metal processing, ranging from 3D computer models to lasers, electron beams, and computer controlled AM machines Offers the reader a guide to speaking the language of AM metal, with links to additional reading, references, resources, and service providers Illustrates how a new generation of designers and engineers are thinking outside the box to create the future of manufacturing through innovative applications and the use of advanced materials.

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2. Record Nr.	UNINA9910409670903321
Titolo	Economic and Financial Challenges for Balkan and Eastern European Countries : Proceedings of the 10th International Conference on the Economies of the Balkan and Eastern European Countries in the Changing World (EBEEC) in Warsaw, Poland 2018 // edited by Marietta Janowicz-Lomott, Krzysztof yskawa, Persefoni Polychronidou, Anastasios Karasavoglou
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Collana	Springer Proceedings in Business and Economics, , 2198-7254
Disciplina	338.9496
Soggetti	Macroeconomics International economic relations Economic development Financial services industry Macroeconomics and Monetary Economics International Economics Economic Growth Financial Services
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Political Risk Complementarity Between Business Economics and International Relations -- The Impact of Public Debt on Economic Growth: Empirical Analyses for Western Balkan Countries -- Inflation and Economic Growth in Turkey -- Distance as Determinant of FDI in Transition Countries -- The Financial Services Exports of China and the Role of RMB -- The Succession in SME's -- Innovativeness of Serbian Enterprises as a Factor of Competitiveness Improvement at the International Market -- Electric Energy Sector in Turkey and Energy Trading Between Turkey and Balkan Countries -- Profitability Determinants of Insurance Companies in the Republic of Serbia -- Instruments for Financing Damage in Animal Production in Poland and

the European Union -- Determinants of Demand for Private Voluntary Health Insurance -- Healthcare Goods and Services -- The Path for Introducing Diagnosis Related Groups (DRGs) in Albanian Healthcare -- On a Bertrand Dynamic Game with Differentiated Goods, Heterogeneous Expectations and Asymmetric Cost Functions -- Forecasting Meal Requirements Using Time Series Methods in Organization -- The Upcoming Role of the Enterprise Architect -- A Hierarchical Analysis of Internet Adoption and Usage by the Seniors -- What Happened in Turkey after Booking.Com Limitation: Sentiment Analysis of Tweets via Text Mining -- Sentiment Analysis of How Turkish Customers Effect from Paypal Closure -- What Is the Priority of the Political Rhetoric of the Russian Presidents.

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## Sommario/riassunto

This proceedings book presents selected papers from the 10th international conference on the "Economies of the Balkan and Eastern European Countries in the Changing World" (EBEEC), held in Warsaw, Poland, in May 2018. In addition to discussing the latest research, it includes papers adopting a wide variety of theoretical approaches and empirical methodologies and covering a number of key areas, such as international economics, economic growth, finance and banking, insurance, healthcare, agriculture, labor and energy markets, innovation, management and marketing. In addition, the authors discuss policy instruments and best practices for the region. This book appeals to scholars and students in fields of economics and finance as well as practitioners interested in the development of the region.

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