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Autore	Meyer Peter B (Peter Benjamin)
Titolo	Network of tinkerers [[electronic resource]] : a model of open-source technology innovation / / Peter B. Meyer
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Autore	Pei Eujin
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Collana	Mechanical Engineering (R0) Series
Altri autori (Persone)	MonzónMario BernardAlain GibsonIan
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Soggetti	Industrial engineering Production engineering Mechanical engineering Engineering design Technical education Professional education Vocational education Industrial and Production Engineering Mechanical Engineering Engineering Design Engineering and Technology Education Professional and Vocational Education
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Nota di contenuto	Chapter 1. Integrating 3D Printing Practices within Academia -- Chapter 2. 3D Printing Applications in Special Needs Education -- Chapter 3. Teaching Design for Additive Manufacturing to Balance Creativity and Functional Requirements -- Chapter 4. Forming an Understanding of AM: Using real-world cases to teach additive manufacturing to metal forming students -- Chapter 5. Empowering the Additive Manufacturing Workforce: Industry-Government Collaborative Training, Reskilling Strategies, and Certification Pathways

Sommario/riassunto

This textbook provides a wealth of information for researchers, teachers and educators, offering knowledge and practical insights to navigate the intricacies of training and teaching the use of Additive Manufacturing. Featuring contributions from world-leading experts, each chapter delves into specialized areas such as integrating AM practices in academia, applications in special needs education, and teaching design for AM while balancing creativity and functionality. Real-world case studies provide invaluable lessons for teaching AM to metal forming students, empowering the workforce through collaborative training initiatives and revolutionizing education through distance learning. With a focus on pedagogical excellence, this book introduces innovative teaching methodologies, digital immersion in virtual reality, and metacognitive-driven training approaches to enhance AM education. From sustainability considerations to medical applications, each chapter offers a unique perspective, ensuring a holistic understanding of AM's potential. Whether you are a seasoned professional or a newcomer to the field, this book equips readers with the strategies and knowledge to excel in Additive Manufacturing education and practice, bridging the gap between theory and application in this rapidly evolving domain.