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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
Pubbl/distr/stampa	[Washington, D.C.] : , : U.S. Dept. of Labor, U.S. Bureau of Labor Statistics, Office of Productivity and Technology, , [2007]
Descrizione fisica	33 pages : digital, PDF file
Collana	Working paper ; ; 413
Soggetti	Technological innovations - Economic aspects Diffusion of innovations
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Autore	Pei Eujin
Titolo	Additive Manufacturing Teaching and Training Case Studies : Education Strategies for Additive Manufacturing / / edited by Eujin Pei, Mario Monzón, Alain Bernard, Ian Gibson
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
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Collana	Mechanical Engineering (R0) Series
Altri autori (Persone)	MonzónMario BernardAlain GibsonIan
Disciplina	670
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

-- Chapter 6. Revolutionizing Additive Manufacturing Education: Additive Learning at a Distance -- Chapter 7. Teaching additive manufacturing through digital immersion in virtual reality -- Chapter 8. From Customization to Immersion: The Revolutionary Pedagogy of AIR Education -- Chapter 9. Layer-by-layer: Improving Cybersecurity Training and Education for Additive Manufacturing -- Chapter 10. Additive Manufacturing Learning in University Library Makerspaces -- Chapter 11. Post Graduate Training in Additive Manufacturing -- Chapter 12. 3D Printing as a technique to develop multipart assemblies in Computer Based Design Methods -- Chapter 13. Building the Future: Additive Manufacturing as a Nexus for Engineering Education -- Chapter 14. Bridging the Gap: Education and Training in Additive Manufacturing for Industry and Workforce Advancement -- Chapter 15. Enhancing Design Education Through Additive Manufacturing: A Circular and Sustainable Perspective -- Chapter 16. Research on rails: A case study into using classroom activities to explore the links between material's performance and additive manufacturing strategies -- Chapter 17. Additive Manufacturing Upskilling Framework for Future Apprentices -- Chapter 18. Insights into Effective Additive Manufacturing Training Methods for Multi-professional Groups -- Chapter 19. Hybrid Training Approach for Additive Manufacturing Success -- Chapter 20. Pedagogical Excellence in Additive Manufacturing – An Integrated Teaching Curriculum -- Chapter 21. Metacognitive driven training for AM users. A curriculum and delivery design approach -- Chapter 22. Additive Manufacturing-based methodology for the representation of complex pathologies in ultrarealistic bio-models for surgery planning and lifelike practising -- Chapter 23. Medical models by AM for training -- Chapter 24. Sustainability in AM technologies -- Chapter 25. Teaching distance additive manufacturing – Feedback on a MOOC creation.

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## 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.

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