1. Record Nr. UNINA9910746097203321

Autore	Stavropoulos Panagiotis
Titolo	Additive Manufacturing: Design, Processes and Applications / / by Panagiotis Stavropoulos
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-33793-X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (139 pages)
Collana	SpringerBriefs in Applied Sciences and Technology, , 2191-5318
Disciplina	621.988
Soggetti	Industrial engineering Production engineering Materials Production management Industrial and Production Engineering Materials Engineering Production
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Design for AM -- Chapter 3. AM Processes -- Chapter 4. AM Applications -- Chapter 5. Conclusions. .
Sommario/riassunto	This book is a comprehensive guide to additive manufacturing (AM) product development. It offers a practical, reader-friendly approach to integrating the stages of product development. It covers current design and manufacturing strategies with a step-by-step approach, divided into three pillars: design, processes, and applications. This book addresses the challenges hindering the industrial application of AM and provides a roadmap for its successful implementation. It discusses specific AM case studies and hybrid AM cell and production line setups, with the goal of achieving high-quality, low-cost products that are both flexible and productive. The book concludes with an examination of Industry 4.0 capabilities in decentralized manufacturing. It is aimed to be read by researchers and professionals in industry who are interested in the development and potential of additive manufacturing, and will help to lead to wider adoption of AM.