

1. Record Nr.	UNINA9911024063903321
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Titolo	Metal Additive Manufacturing : Design, Performance, and Applications
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2025
Descrizione fisica	1 online resource
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The following reprint explores the transformative advancements in metal additive manufacturing (AM) across cutting-edge industrial applications. Addressing key challenges in design, performance optimization, and application-specific development, it serves as a platform for state-of-the-art research and innovative methodologies. The collection features 10 high-quality papers authored by 47 contributors from 22 esteemed institutions, highlighting substantial interdisciplinary collaboration efforts. Built upon 381 published works, these studies present novel insights into material properties and real-world applications. With over 9,600 views in the first nine months, this reprint underscores the growing significance of metal AM and its accelerating industrial adoption.