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Nota di contenuto	Intro -- Contents -- Section 1 Research significance and background -- Section 2 Bulk metallic glasses (BMGs) and bulk metallic glass matrix composites (BMGMCs) -- Section 3 Additive manufacturing (AM) -- Section 4 Modeling and simulation -- Section 5 Modeling and simulation of solidification phenomena during processing of BMGMC by additive manufacturing (AM) -- Appendix A: Heterogeneous nucleation and growth in very fluid alloys (as per CNT) [1064] -- Appendix B: Columnar to Equiaxed Transition (CET) -- Comparison -- Research gap -- Overall aims/research questions -- Methodology -- References -- Exercise -- Design problems -- Index.
Sommario/riassunto	The book provides a comprehensive state-of-the-art review on the topic of bulk metallic glass matrix composites and understanding of mechanisms of development of composite microstructure. It discusses mechanisms of formation and toughening both during conventional casting routes and additive manufacturing. The second edition encompasses new studies and highlights advancement in mechanical properties, characterization, processing and applications.