



Particulate Composites : Fundamentals and Applications

By Randall M. German

Springer-Verlag GmbH Jun 2016, 2016. Buch. Condition: Neu. Neuware - This book is focused on composites involving powders as the starting materials. It provides relevant information for questions related to the selection of constituent phases, most economic fabrication routes, proper testing procedures, and product optimization. The field is sufficiently advanced that predictive models guide many decisions. Applications are illustrated over a broad range of material and property combinations. This title includes: -Selection of phases with consideration of intersolubility & interface -Microstructure, especially the role of phase connectivity -Fabrication approaches, especially net-shape consolidation -Assessment of typical properties, testing techniques & industry standards -Design & trade-off decisions involved in optimization, including cost -Applications, both those that have matured and some emerging prospects. The reader may have little appreciation for how particulate composites are literally everywhere. Examples include new wear resistant consumer products (Apple watch), longer lasting automotive tires with reduced rolling resistance (Yokohama tires), and new diamond heat sinks for computers (Element Six substrates). Particulate composites also form critical components in applications such as magnets, dental fillings, brakes, darts, bio-implants, & cutting tools. Particulate composites are a multi-billion dollar industry, and can be a cost-effective solution ripe for innovation and continued rapid growth. For the...

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