



# **Metal Matrix Syntactic Foams: Processing, Microstructure, Properties and Applications**

*edited by: Nikhil Gupta, edited by: Pradeep K. Rohatgi*

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# Metal Matrix Syntactic Foams: Processing, Microstructure, Properties and Applications

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Complete guide for materials, engineering, modeling and processing of novel syntactic material Lightweight metal-type foams for aeronautical, recreational and electronic applications

Focused on a new type of material, the book investigates the elements, synthesis and practical applications of metal matrix syntactic foams, which share properties of foams and metal matrix composites. The text reviews how syntactic foams are synthesized from different types of hollow particles and metal matrixes. Part one explains processing techniques such as solidification and powder metallurgy and discusses foams made from a variety of matrix metals. Part two compares different syntactic foams based on density and strain rate. Original experimental data and modeling information are provided that show how metal matrix syntactic foams can be used for lighter weight components in vehicles, as well as for sensors and biomaterials.

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