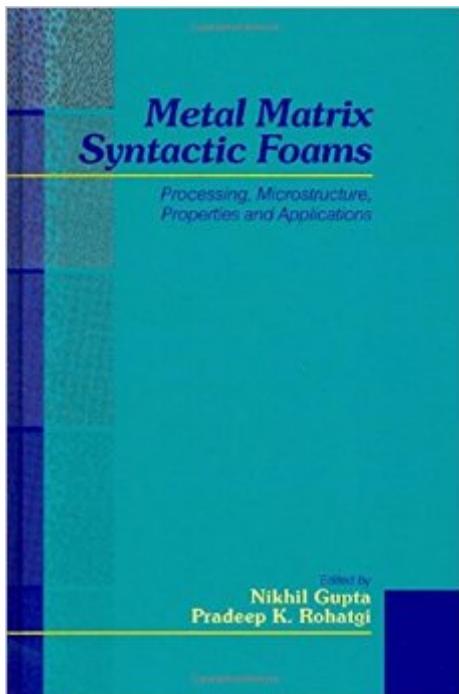


The book was found

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



## Synopsis

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.

## Book Information

Hardcover: 370 pages

Publisher: DEStech Publications, Inc (July 1, 2014)

Language: English

ISBN-10: 1932078835

ISBN-13: 978-1932078831

Product Dimensions: 1.2 x 6 x 9.5 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,958,365 in Books (See Top 100 in Books) #93 in Books > Engineering & Transportation > Engineering > Reference > Research #453 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Extraction & Processing #1060 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Metallurgy

[Download to continue reading...](#)

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

Microstructure and Properties of Ductile Iron and Compacted Graphite Iron Castings: The Effects of Mold Sand/Metal Interface Phenomena (SpringerBriefs in Materials) Concrete: Microstructure, Properties, and Materials Metal Ions in Biological Systems: Volume 29: Biological Properties of Metal Alkyl Derivatives Polymer Foams Handbook: Engineering and Biomechanics Applications and Design Guide Syntactic Structures A Survey of Matrix Theory and Matrix Inequalities (Dover Books

on Mathematics) The Essential Guide to the ACT Matrix: A Step-by-Step Approach to Using the ACT Matrix Model in Clinical Practice Advances in Powder Metallurgy: Properties, Processing and Applications (Woodhead Publishing Series in Metals and Surface Engineering) Plastics Packaging 2E: 'Properties, Processing, Applications and Regulations Dental Materials: Properties and Manipulation, 9e (Dental Materials: Properties & Manipulation (Craig)) Molybdenum and Its Compounds: Applications, Electrochemical Properties and Geological Implications (Chemistry Research and Applications) Learn to Weld: Beginning MIG Welding and Metal Fabrication Basics - Includes techniques you can use for home and automotive repair, metal fabrication projects, sculpture, and more Building Fences of Wood, Stone, Metal, & Plants: Making Fence with Wood, Metal, Stone and Living Plants Metal Detecting: Without A Detector: How To Find Treasure When You Can't Use Your Metal Detector (Gold, Coins & Jewelry) The Metal Lathe (Build Your Own Metal Working Shop From Scrap Series Book 2) Blacksmithing: 15 Modern DIY Metal Projects for Beginners: (Blacksmithing, Metal Work) (Knife Making, Bladesmith) Manual De Torno Para Metal: Torno Para Metal (Colección Como Hacer Bien Y Facilmente) (Spanish Edition) Metal-Ligand Multiple Bonds: The Chemistry of Transition Metal Complexes Containing Oxo, Nitrido, Imido, Alkylidene, or Alkyldyne Ligands Ceramic and Glass Materials: Structure, Properties and Processing

[Dmca](#)