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microstructure and mechanical behavior of ti 6al 4v produced by rapid layer manufacturing for biomedical applications

### **microstructure and mechanical behavior pdf**

microstructure and mechanical behavior of ti 6al 4v produced by rapid layer manufacturing for biomedical applications We demonstrate a novel approach of utilizing a hierarchical microstructure design to improve the mechanical properties of an interstitial carbon doped high-entropy alloy (HEA) by cold rolling and subsequent tempering and annealing.

### **Hierarchical microstructure design to tune the mechanical**

microstructure and mechanical behavior of ti 6al 4v produced by rapid layer manufacturing for biomedical applications Microstructure is the very small scale structure of a material, defined as the structure of a prepared surface of material as revealed by a microscope above 25 $\times$  magnification. The microstructure of a material (such as metals, polymers, ceramics or composites) can strongly influence physical properties such as strength, toughness, ductility, hardness, corrosion resistance, high/low temperature ...

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### **Anisotropy and heterogeneity of microstructure and**

microstructure and mechanical behavior of ti 6al 4v produced by rapid layer manufacturing for biomedical applications vii acknowledgments T he idea for this book emerged after teaching the undergraduate course on mechanical behavior of materials at the University of California at Berkeley for more than 20 years, recognizing the

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2 Stress-Strain Behavior of Thermoplastic Polyurethane H.J. Qi<sup>1,2</sup>, M.C. Boyce<sup>1</sup> <sup>1</sup>Department of Mechanical Engineering, Massachusetts Institute of Technology Cambridge, MA 02139 <sup>2</sup>Department of Mechanical Engineering, University of Colorado Boulder, CO 80309 Submitted in December 2003 Revised in July 2004

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