

Rapid prototyping of biomaterials : principles and applications / edited by Roger Narayan

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Abstrak

Rapid prototyping of biomaterials : principles and applications provides a comprehensive review of established and emerging rapid prototyping technologies (such as bioprinting) for medical applications. Rapid prototyping, also known as layer manufacturing, additive manufacturing, solid freeform fabrication, or 3D printing, can be used to create complex structures and devices for medical applications from solid, powder, or liquid precursors.

Following a useful introduction, which provides an overview of the field, the book explores rapid prototyping of nanoscale biomaterials, biosensors, artificial organs, and prosthetic limbs. Further chapters consider the use of rapid prototyping technologies for the processing of viable cells, scaffolds, and tissues.