



Biomaterials Fabrication and Processing Handbook

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Focusing on a lucrative and increasingly important area of biomedicine, the **Biomaterials Fabrication and Processing Handbook** brings together various biomaterials production and processing aspects, including tissue engineering scaffold materials, drug delivery systems, nanobiomaterials, and biosensors. With contributions from renowned international experts and extensive reference lists in each chapter, the volume provides detailed, practical information to produce and use biomaterials.

The different facets of biomaterials technology are split into four sections in the book—

Part I

The development of new materials and devices capable of interacting specifically with biological tissues and the preparation of scaffolds using materials with appropriate composition and structure

Part II

The necessary materials to create a drug delivery system capable of controlled release and the incorporation of drug reservoirs into implantable devices for sustained controlled release

Part III

The significant role nanotechnology plays in the biomedical and biotechnology fields

Part IV

More biomaterials, including synthetic and natural degradable polymeric biomaterials, electroactive polymers as smart materials, and biomaterials for gastrointestinal and cartilage repair and reconstruction

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