



Biomaterials and Devices for the Circulatory System (Woodhead Publishing Series in Biomaterials)

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Cardiovascular disease is one of the leading causes of death in the world today. Thanks to major advances in circulatory biomaterials and medical devices over the past few decades, many complications of this prevalent disease can be managed with great success for prolonged periods.

Biomaterials and devices for the circulatory system reviews the latest developments in this important field and how they can be used to improve the success and safety in this industry.

Part one discusses physiological responses to biomaterials with chapters on tissue response, blood interface and biocompatibility. Part two then reviews clinical applications including developments in valve technology, percutaneous valve replacement, bypass technologies and cardiovascular stents. Part three covers future developments in the field with topics such as nanomedicine, cardiac restoration therapy, biosensor technology in the treatment of cardiovascular disease and vascular tissue engineering.

With its distinguished editors and international team of contributors Biomaterials and devices for the circulatory system is a vital reference for those concerned with bioengineering, medical devices and clinicians within this critical field.

- Reviews the latest developments in this important field and how they can be used to improve success and safety in the industry
- Both current clinical advances as well as future innovation are assessed taking a progressive view of the role of biomaterials in medical applications
- An examination of the physiological responses to biomaterials features tissue responses to implanted materials and strategies to improve the biocompatibility of medical devices

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