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

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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.

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- Reviews the latest developments in this important field and how they can be used to improve success and safety in the industry
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- 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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