



Cardiovascular and Cardiac Therapeutic Devices (Studies in Mechanobiology, Tissue Engineering and Biomaterials)

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This volume focuses on latest research in therapeutic devices for cardiovascular, i.e. vascular and valvular and cardiac diseases. In the area of vascular therapies, aspects covered relate to latest research in small-diameter tissue-regenerative vascular grafts, one of the greatest persisting challenges in cardiovascular therapies, stent grafts and endovascular stents for percutaneous arterial interventions. Contributions on valvular therapies focus on tissue engineered and tissue regenerative prosthetic heart valves and valvular prostheses for trans-apical implantation including the challenges posed on the prosthesis design. The section on cardiac diseases aims at covering therapeutic advances for myocardial infarction and prevention of heart failure and on in vivo biomechanics of implantable cardiac pacemaker devices. A further section complements these three areas by presenting constitutive modelling of soft biological tissues of the cardiovascular system, an area imperative for advanced numerical and computational modelling in the development and optimisation of cardiovascular devices and therapies.

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