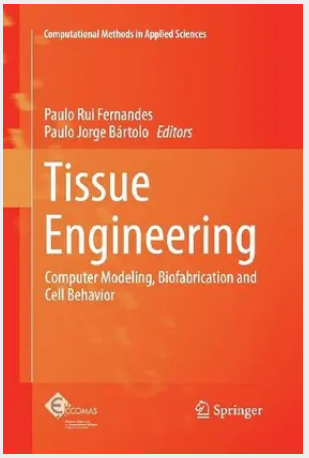
Fernandes / Bartolo

# Tissue Engineering

Computer Modeling, Biofabrication and Cell Behavior




This book describes the state of the art on computational modeling and fabrication in Tissue Engineering. It is inspired by the ECCOMAS thematic conference, the European Committee on Computational Methods in Applied Sciences, on Tissue Engineering, held in Lisbon, Portugal, June 2-4, 2011.
Tissue Engineering is a multidisciplinary field involving scientists from different fields. The development of mathematical methods is quite relevant to understand cell biology and human tissues as well to model, design and fabricate optimized and smart scaffolds. Emphasis is put on mathematical and computational modeling for scaffold design and fabrication. This particular area of tissue engineering, whose goal is to obtain substitutes for hard tissues such as bone and cartilage, is growing in importance.

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