



## Biomimetic Design and Fabrication of Tissue Scaffolds

By Wei Sun

VDM Verlag. Paperback. Book Condition: New. Paperback. 168 pages. Dimensions: 9.6in. x 6.7in. x 0.4in. Revision with unchanged content. CATE enables a systematic application of computer-aided technologies, i. e. , computer-aided design (CAD), image processing, computer-aided manufacturing (CAM), and solid freeform fabrication (SFF) for modeling, designing, simulation, and manufacturing of biological tissue and organ substitutes. Through the use of CATE, the design of intricate three dimensional architecture of scaffold can be realized and these scaffolds can be fabricated with reproducible accuracy to assist biologists in studying complex tissue engineering problems. This book outlines research addressing some of the challenges in applying the CATE approach for the biomimetic design and freeform fabrication of tissue scaffolds. CATE enables many novel approaches in modeling, design, and fabrication of complex tissue substitutes with enhanced functionality for research in patient specific implant analysis and simulation, image guided surgical planning and scaffold guided tissue engineering. The research will also enable cell biologists and engineers to expand their scope of research and study in the field of tissue engineering and regenerative medicine. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.



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