Saltzman

Tissue Engineering

Engineering Principles for the Design of Replacement Organs and Tissues

Tissue engineering is a new field of biomedical engineering, in which synthetic materials are used together with biological components such as tissue fragments, cells, proteins to encourage tissue regeneration, regrowth, and repair. This book introduces the principles of tissue engineering in a unique way that is ideally suited for the modern engineering student. A review of developmental biology is presented early in the book, since biological development is the fundamental process of most relevance for tissue engineering. The study of development provides a pathway to basic bioengineering units on cell adhesion, migration, assembly, and transport, which are integrated in the final sections of the book into tissue engineering processes (such as cell delivery, growth factor administration, and polymeric scaffold materials).

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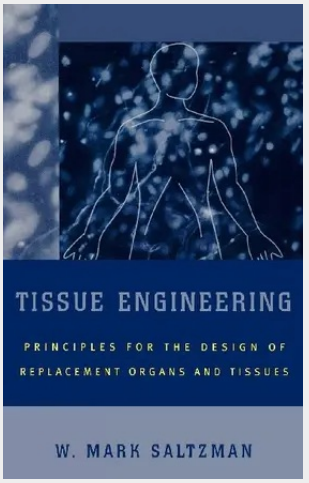

182,10 €
182,10 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780195141306
Medium: Buch
ISBN: 978-0-19-514130-6
Verlag: Oxford University Press, USA
Erscheinungstermin: 15.07.2004
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2004
Produktform: Gebunden
Gewicht: 966 g
Seiten: 544
Format (B x H): 161 x 240 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)