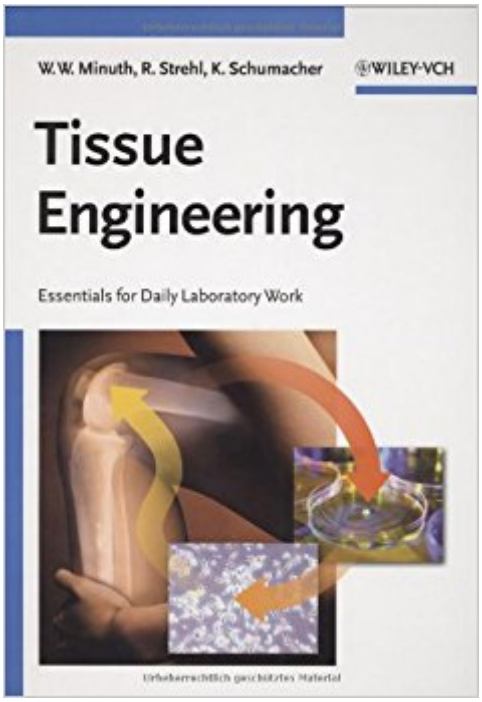
Tissue Engineering: From Cell Biology To Artificial Organs



Synopsis

Comprehensive in its scope and illustrated in detail, this practical book provides a fundamental insight into the complex world of tissue development and artificial cell culture using tissue engineering. The introductory chapters cover basic cell biology and cellular development as well as cell culture, with a main emphasis on ways of differentiating tissue and the critical evaluation of the properties of maturing tissue constructs. The authors also focus on the use of stem cells from the most varied sources in tissue engineering. The whole is rounded off by an exceptionally wide-ranging glossary containing some 1,000 key words from the fields of cell biology, cell culture development and tissue engineering.

Book Information

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Customer Reviews

"This book is fun to read because it covers a lot of ground quickly ... an excellent resource for students who are interested in learning the ’big picture.’" Doody’s Health Services "... well written, comprehensive in its scope, and illustrated in detail, providing a broad insight into the world of tissue engineering." Annals of Biomedical Engineering

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Tissue Engineering: From Cell Biology to Artificial Organs Tissue Engineering II: Basics of Tissue Engineering and Tissue Applications (Advances in Biochemical Engineering/Biotechnology) Tissue Engineering I: Scaffold Systems for Tissue Engineering (Advances in Biochemical Engineering/Biotechnology) (v. 1) Tissue Engineering: Engineering Principles for the Design of Replacement Organs and Tissues Introduction to Cell and Tissue Culture: Theory and Technique (Introductory Cell and Molecular Biology Techniques) Artificial Organs (Synthesis Lectures on Biomedical Engineering) Design of Artificial Human Joints & Organs Readings in Medical Artificial Intelligence. The First Decade (Addison-Wesley Series in Artificial Intelligence) Stained Glass Tissue Box Cover: How to make your own stained glass tissue box covers Molecular Biology (WCB Cell & Molecular Biology) Volume 1 - Cell Biology and Genetics (Biology: the Unity and Diversity of Life) Artificial Intelligence in Label-free Microscopy: Biological Cell Classification by Time Stretch Biomimetic Materials And Design: Biointerfacial Strategies, Tissue Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing) Cell and Tissue Ultrastructure: A Functional Perspective Biomaterials Regulating Cell Function and Tissue Development: Volume 530 (MRS Proceedings) Making Cell Groups Work: Navigating the Transformation to a Cell-Based Church Cell Phones and Distracted Driving (Cell Phones and Society) Developmental Biology, Ninth Edition (Developmental Biology Developmental Biology) Young Scientists: Learning Basic Biology (Ages 9 and Up): Biology Books for Kids (Children’s Biology Books) Forbidden Gates: How Genetics, Robotics, Artificial Intelligence, Synthetic Biology, Nanotechnology, & Human Enhancement Herald The Dawn Of Techno-Dimensional Spiritual Warfare