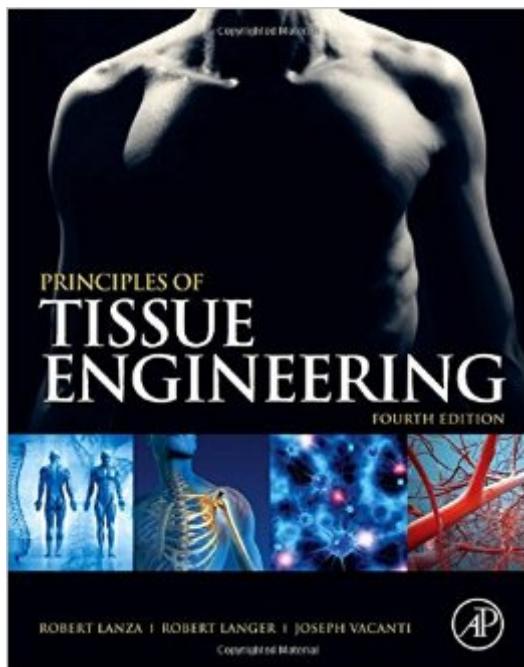


The book was found

Principles Of Tissue Engineering, 4th Edition



Synopsis

Now in its fourth edition, *Principles of Tissue Engineering* has been the definite resource in the field of tissue engineering for more than a decade. The fourth edition provides an update on this rapidly progressing field, combining the prerequisites for a general understanding of tissue growth and development, the tools and theoretical information needed to design tissues and organs, as well as a presentation by the world's experts of what is currently known about each specific organ system. As in previous editions, this book creates a comprehensive work that strikes a balance among the diversity of subjects that are related to tissue engineering, including biology, chemistry, material science, and engineering, among others, while also emphasizing those research areas that are likely to be of clinical value in the future. This edition includes greatly expanded focus on stem cells, including induced pluripotent stem (iPS) cells, stem cell niches, and blood components from stem cells. This research has already produced applications in disease modeling, toxicity testing, drug development, and clinical therapies. This up-to-date coverage of stem cell biology and other emerging technologies "such as brain-machine interfaces for controlling bionics and neuroprostheses" is complemented by a series of new and updated chapters on recent clinical experience in applying tissue engineering, as well as a new section on the application of tissue-engineering techniques for food production. The result is a comprehensive textbook that will be useful to students and experts alike. Includes new chapters on biomaterial-protein interactions, nanocomposite and three-dimensional scaffolds, skin substitutes, spinal cord, vision enhancement, and heart valves. Offers expanded coverage of adult and embryonic stem cells of the cardiovascular, hematopoietic, musculoskeletal, nervous, and other organ systems. Full-color presentation throughout.

Book Information

Hardcover: 1936 pages

Publisher: Academic Press; 4 edition (November 29, 2013)

Language: English

ISBN-10: 0123983584

ISBN-13: 978-0123983589

Product Dimensions: 8.9 x 2.5 x 11.1 inches

Shipping Weight: 8.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars (See all reviews) (1 customer review)

Best Sellers Rank: #445,384 in Books (See Top 100 in Books) #50 in Books > Textbooks >

Customer Reviews

I will be hopefully starting new lab and am using this to guide us on what we will need to do to achieve a function pelvic floor molecular biology laboratory. Its full of useful information and diagrams.

[Download to continue reading...](#)

Tissue Engineering I: Scaffold Systems for Tissue Engineering (Advances in Biochemical Engineering/Biotechnology) (v. 1) Principles of Tissue Engineering, 4th Edition Tissue Engineering: Engineering Principles for the Design of Replacement Organs and Tissues Soft Tissue Injuries and Hard Ball Tactics: Dealing With Soft Tissue Injuries and Insurance Companies Biomimetic Materials And Design: Biointerfacial Strategies, Tissue Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing) G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Orthodontically Driven Corticotomy: Tissue Engineering to Enhance Orthodontic and Multidisciplinary Treatment Culture of Cells for Tissue Engineering Laser-Tissue Interactions: Fundamentals and Applications (Biological and Medical Physics, Biomedical Engineering) Analysis, Synthesis and Design of Chemical Processes (4th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) 4th (fourth) Edition by Turton, Richard, Bailie, Richard, Whiting, Wallace B., Shaei [2012] Dynamics of Structures (4th Edition) (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics) The Complete Works of Herbert Spencer: The Principles of Psychology, The Principles of Philosophy, First Principles and More (6 Books With Active Table of Contents) Occupational Ergonomics: Engineering and Administrative Controls (Principles and Applications in Engineering) Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series) Masaje profundo para la liberacion de tejidos blandos / Deep massage for soft tissue release (Spanish Edition) Joint and Soft Tissue Injection: Injecting with Confidence, 5th Edition Dr. Jensen's Guide to Better Bowel Care: A Complete Program for Tissue Cleansing through Bowel Management Pediatric Bone and Soft Tissue Sarcomas (Pediatric Oncology)

[Dmca](#)