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Biomaterials The Intersection of Biology and Materials Science J. S. Temenoff Wallace H. Coulter Department of Biomedical Engineering Georgia Tech and Emory University, Atlanta, GA A. G. Mikos Departments of Bioengineering and Chemical and Biomolecular Engineering Rice University, Houston, TX Upper Saddle River, New Jersey 07458 PEARSON Prentice

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Co-authors, Johnna Temenoff and Antonios Mikos, are the 2010 Meriam/Wiley Distinguished Author Award Recipients for Biomaterials: The Intersection of Biology and Materials Science. Features Topics build from basic chemical/structural organization of materials through physical and mechanical properties to material processing/manufacturing.

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1.1 One common biomaterial application is the construction of an arterial graft, a device that replaces a section of an artery. An artery is a flexible blood vessel that can withstand varying pressures and regulates the flow of blood. Arteries also provide a smooth interior surface to inhibit blood clotting within the vessel. a.

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About the Author. Johnna S. Temenoff and Antonios G. Mikos, co-authors of Biomaterials: The Intersection of Biology and Materials Science, have been chosen to receive the 2010 Meriam/Wiley Distinguished Author Award from the American Society for Engineering Education (ASEE). This marks the first time that authors of a biomedical engineering textbook have been recognized with this award.

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Finally, it covers some in-depth applications of biomaterials. It does all of this with an overall emphasis on tissue engineering.Co-authors, Johnna Temenoff and Antonios Mikos, are the 2010 Meriam/Wiley Distinguished Author Award Recipients for Biomaterials: The Intersection of Biology and Materials Science.

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A succinct introduction to the field of biomaterials engineering, packed with practical insights.

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The extracellular matrix (ECM) is the focus of much interest in biology and bioengineering. Increasing understanding of the influence of the ECM on cell behaviour has led to the exciting possibilities of tissue engineering. Aside from new therapeutic tools, understanding the ECM is of course fundamental to basic cell biology research. Mimicking the Extracellular Matrix approaches this topic from both basic science and practical engineering perspectives. Seven topics are approached each in a pair of chapters, one with a biological approach and its partner with a bioengineering approach. Topics include the mechanical properties of the ECM, which outlines current knowledge of the ECM physical structure and reviewing state-of-the-art strategies to mimic its native microenvironments. The organisational characteristics of the ECM form the focus of another pair of chapters, where the collagen triple helix is discussed, followed by a review of advances in artificial reproduction of well-ordered systems using self-assembling peptides, or peptide amphiphiles. The balanced approach of this text gives it a broad appeal to those interested in the ECM from a range of backgrounds and disciplines. Suitable for undergraduates, postgraduates, and academics, this text aims to unify the current knowledge of ECM biology and matrix-mimicking biomaterials.

Scientists have long desired to create synthetic systems that function with the precision and efficiency of biological systems. Using new techniques, researchers are now uncovering principles that could allow the creation of synthetic materials that can perform tasks as precise as biological systems. To assess the current work and future promise of the biology-materials science intersection, the Department of Energy and the National Science Foundation asked the NRC to identify the most compelling questions and opportunities at this interface, suggest strategies to address them, and consider connections with national priorities such as healthcare and economic growth. This book presents a discussion of principles governing biomaterial design, a description of advanced materials for selected functions such as energy and national security, an assessment of biomolecular materials research tools, and an examination of infrastructure and resources for bridging biological and materials science.

Numerical Modeling in Biomedical Engineering brings together the integrative set of computational problem solving tools important to biomedical engineers. Through the use of comprehensive homework exercises, relevant examples and extensive case studies, this book integrates principles and techniques of numerical analysis. Covering biomechanical phenomena and physiologic, cell and molecular systems, this is an essential tool for students and all those studying biomedical transport, biomedical thermodynamics & kinetics and biomechanics. Supported by Whitaker Foundation Teaching Materials Program; ABET-oriented pedagogical layout Extensive hands-on homework exercises

Learn to maintain and repair the high tech hospital equipment with this practical, straightforward, and thorough new book. Biomedical Instrumentation Systems uses practical medical scenarios to illustrate effective equipment maintenance and repair procedures. Additional coverage includes basic electronics principles, as well as medical device and safety standards. Designed to provide readers with the most current industry information, the latest medical websites are referenced, and today's most popular software simulation packages like MATLAB and MultiSIM are utilized. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The revised edition of the renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science from principles to applications. Biomaterials Science, fourth edition, provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. This new edition incorporates key updates to reflect the latest relevant research in the field, particularly in the applications section, which includes the latest in topics such as nanotechnology, robotic implantation, and biomaterials utilized in cancer research detection and therapy. Other additions include regenerative engineering, 3D printing, personalized medicine and organs on a chip. Translation from the lab to commercial products is emphasized with new content dedicated to medical device development, global issues related to translation, and issues of quality assurance and reimbursement. In response to customer feedback, the new edition also features consolidation of redundant material to ensure clarity and focus. Biomaterials Science, 4th edition is an important update to the best-selling text, vital to the biomaterials community. The most comprehensive coverage of principles and applications of all classes of biomaterials Edited and contributed by the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and updated to address issues of translation, nanotechnology, additive manufacturing, organs on chip, precision medicine and much more. Online chapter exercises available for most chapters

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