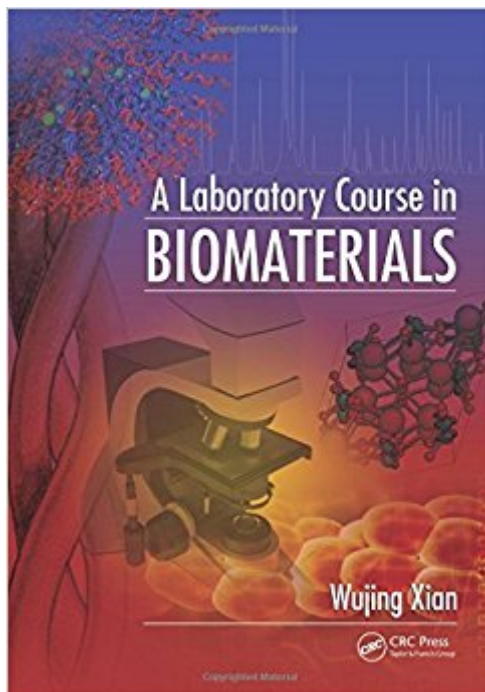


The book was found

A Laboratory Course In Biomaterials



Synopsis

The field of biomedical engineering has vastly expanded in the past two decades, as reflected in the increased number of bioengineering and biomaterials programs at universities. The growth of this area has outpaced the development of laboratory courses that allow students hands-on experience, since the barriers involved in creating multidisciplinary biomaterials laboratory courses are high. A Laboratory Course in Biomaterials provides a teaching tool comprehensive in scope perspective. Multidisciplinary approach Suitable for junior or senior level laboratory courses in biomaterials and bioengineering, this volume trains students in laboratory skills, data analysis, problem solving, and scientific writing. The text takes a multidisciplinary approach, integrating a variety of principles that include materials science, chemistry, biochemistry, molecular and cell biology, and engineering. Step-by-step instructions The author presents flexible modules that allow the coursework to be adapted to the needs of different departments. Each module is organized around a central theme, such as drug delivery and natural biomaterials, to enhance student comprehension. This book provides step-by-step descriptions of lab procedures, reagents, equipment, and data processing guidelines. It also includes a series of thought-provoking questions and answers following each experiment, drawn from the author's own experience in teaching a biomaterials laboratory course at the University of Illinois. Timely in its coverage, many of the experiments presented in the book are adapted from research papers reflecting the progress in various disciplines of bioengineering and biomaterials science.

Book Information

Plastic Comb: 216 pages

Publisher: CRC Press; 1 edition (June 20, 2009)

Language: English

ISBN-10: 1420075829

ISBN-13: 978-1420075823

Product Dimensions: 7.4 x 0.6 x 9.8 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #705,818 in Books (See Top 100 in Books) #123 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology](#) #255 in [Books > Engineering & Transportation > Engineering > Bioengineering > Biomedical Engineering](#) #536 in [Books > Engineering & Transportation > Engineering > Bioengineering > Biotechnology](#)

Customer Reviews

Wujing Xian is a professor at the University of Illinois at Urbana-Champaign.

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

Regulatory Affairs for Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials) Dental Biomaterials: Imaging, Testing and Modelling (Woodhead Publishing Series in Biomaterials) Sterilisation of Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials) Perspectives in Total Hip Arthroplasty: Advances in Biomaterials and their Tribological Interactions (Woodhead Publishing Series in Biomaterials) Wound Healing Biomaterials - Volume 2: Functional Biomaterials A Laboratory Course in Biomaterials Davis's Comprehensive Handbook of Laboratory and Diagnostic Tests With Nursing Implications (Davis's Comprehensive Handbook of Laboratory & Diagnostic Tests With Nursing Implications) Davis's Comprehensive Handbook of Laboratory and Diagnostic Tests With Nursing Implications (Davis's Comprehensive Handbook of Laboratory & Diagnostic Tests W/ Nursing Implications) Immunology & Serology in Laboratory Medicine, 5e (IMMUNOLOGY & SEROLOGY IN LABORATORY MEDICINE (TURGEON)) Clinical Laboratory Blood Banking and Transfusion Medicine Practices (Pearson Clinical Laboratory Science) Fundamental Laboratory Mathematics: Required Calculations for the Medical Laboratory Professional Immunology & Serology in Laboratory Medicine - E-Book (IMMUNOLOGY & SEROLOGY IN LABORATORY MEDICINE (TURGEON)) Laboratory Applications in Microbiology: A Case Study Approach: Laboratory Applications in Microbiology: A Case Study Approach Laboratory and Clinical Dental Materials (Dental Laboratory Technology Manuals) Mosby's Manual of Diagnostic and Laboratory Tests, 4e (Mosby's Manual of Diagnostic & Laboratory Tests) Mosby's Diagnostic and Laboratory Test Reference, 11e (Mosby's Diagnostic & Laboratory Test Reference) Laboratory Tests and Diagnostic Procedures with Nursing Diagnoses (8th Edition) (Laboratory & Diagnostic Tests with Nursing Diagnoses (Corbet) Clinical Laboratory Hematology (3rd Edition) (Pearson Clinical Laboratory Science Series) Clinical Laboratory Chemistry (2nd Edition) (Pearson Clinical Laboratory Science Series) Laboratory Medicine Diagnosis of Disease in Clinical Laboratory 2/E (Lange)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)