Biomaterials: An Introduction

Joon Park, R. S. Lakes
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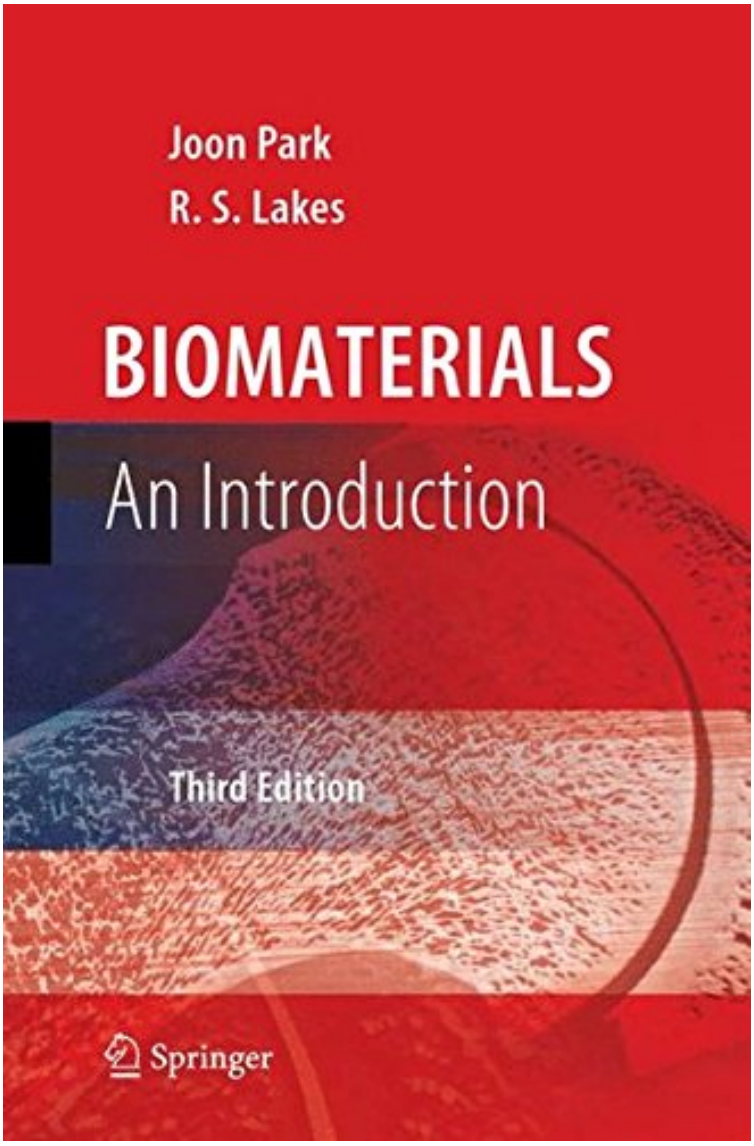

#1182811 in Books Joon Park 2007-08-17Original language:EnglishPDF # 1 10.00 x 1.25 x 7.01l, 2.55 #File Name: 0387378790562 pagesBiomaterials An Introduction | File size: 51.Mb

Joon Park, R. S. Lakes : Biomaterials: An Introduction before purchasing it in order to gage whether or not it would be worth my time, and all praised Biomaterials: An Introduction:

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get this book for school!0 of 0 people found the following review helpful. Five StarsBy Jun GrzybGoes in-depth about material selections and their applications.

With sixty years of combined experience, the authors of this extensively revised book have learned to emphasize the fundamental materials science, structure-property relationships, and biological responses as a foundation for a wide array of biomaterials applications. This edition includes a new chapter on tissue engineering and regenerative medicine, approximately 1900 references to additional reading, extensive tutorial materials on new developments in spinal implants and fixation techniques and theory. It also offers systematic coverage of orthopedic implants, and expanded treatment of ceramic materials and implants.

From a review of the first edition: 'The author has provided a well-written review of the major areas to be covered by anyone entering this field...a useful text for students, engineers, scientists, and surgeons wishing to explore this field.' Journal of MetalsFrom the Back CoverBiomaterials, an Introduction is intended as a general introduction to the uses of artificial materials in the human body for the purposes of aiding healing, correcting deformities, and restoring lost function. Enhancing on the field developments since the successful last edition, Biomaterials, an Introduction continues in its tradition as an outgrowth of an undergraduate course for senior students in biomedical engineering developed by the authors With 60 years of combined experience, the authors have emphasized the fundamental materials science, structure-property relationships and biological responses as a foundation for a wide array of biomaterials applications. Key Features: New detailed illustrations Example problems to provide the student with hands-on experience with concepts Extensive tutorial materials on new developments in spinal implants and fixation techniques and theory, including systematic overage of orthopedic implants, and expanded treatment of ceramic materials and implants New topics included on tissue engineering and regenerative medicine Approximately 1900 references to additional reading, Organized as a textbook for the student needing to acquire the core competencies, Biomaterials, an Introduction will meet the demands of advanced undergraduate or graduate coursework in biomaterials, biomedical engineering, and biophysics. Joon Park is Professor, Biomedical Engineering Department, College of Engineering, University of Iowa. Rod Lakes is a Wisconsin Distinguished Professor at the University of Wisconsin, serving both the Department of Engineering Physics and the Department of Biomedical Engineering. More information about Dr. Lakes and his research can be found on his website: http://silver.neep.wisc.edu/~lakesAbout the AuthorJoon Park is Professor, Biomedical Engineering Department, College of Engineering, University of Iowa. Rod Lakes is a Wisconsin Distinguished Professor at the University of Wisconsin, serving both the Department of Engineering Physics and the Department of Biomedical Engineering. More information about Dr. Lakes and his research can be found on his website: http://silver.neep.wisc.edu/~lakes