

Introductory Biomechanics Ethier

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the maturation of nanotechnology has revealed it to be a unique and distinct discipline rather than a specialization within a larger field its textbook cannot afford to be a chemistry physics or engineering text focused on nano it must be an integrated multidisciplinary and specifically nano textbook the archetype of the modern nano textbook

an interactive text ideal for all health and sports professional students who require a basic understanding of the major biomechanical principles they meet in practice including movement analysis and tissue mechanics starting from the point of zero knowledge this book presents what can be a very dry and difficult area in an engaging and visual way using everyday objects to illustrate the principles and linking this to human anatomy and movement less time is spent on mathematics and classic mechanics with greater emphasis on how these principles are applied to professional practice introductory biomechanics uses workbook style learning diffusing manageable chunks of theory with learning activities and ultimately making the link back to clinical application problems are posed to help students work through the theory and apply it to clinical scenarios boxes containing additional information on many subjects extend knowledge or provide historical perspective to the principle in question

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the mechanisms of the various forms of glaucoma were unknown at the outset of the twentieth century late in the twentieth century two nascent areas of research were beginning to provide glimpses of what the twenty first century held in store for the future of glaucoma the mechanisms of glaucomatous optic neuropathy and the molecular basis of the glaucomas in mechanisms of the glaucomas disease processes and therapeutic modalities the authors review the most current knowledge available in the field and provide a basis in which researchers can effectively study the glaucomas the intent of the book is not primarily to describe the clinical appearances of the glaucomas nor how to manage them rather it is to provide basic scientists who are working in the field of glaucoma with a current understanding of the clinical aspects of glaucoma and to provide clinician scientists with the basic knowledge as they attempt to translate it into rational treatments for glaucoma in this important new book leaders in the various fields of glaucoma review our current understanding of glaucoma from epidemiology and genetics through molecular cellular and tissue responses to the mechanisms of the glaucomas and the mechanisms by which we manage them mechanisms of the glaucomas disease processes and therapeutic modalities will be of great value as its contents will aid the reader in prevention of blindness from glaucoma

this unique resource offers over two hundred well tested bioengineering problems for teaching and examinations solutions are available to instructors online

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