

Introductory Biomechanics Ethier

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introductory biomechanics is a new integrated text written specifically for engineering students it provides a broad overview of this important branch of the rapidly growing field of bioengineering a wide selection of topics is presented ranging from the mechanics of single cells to the dynamics of human movement no prior biological knowledge is assumed and in each chapter the relevant anatomy and physiology are first described the biological system is then analyzed from a mechanical viewpoint by reducing it to its essential elements using the laws of mechanics and then tying mechanical insights back to biological function this integrated approach provides students with a deeper understanding of both the mechanics and the biology than from qualitative study alone the text is supported by a wealth of illustrations tables and examples a large selection of suitable problems and hundreds of current references making it an essential textbook for any biomechanics course

this book focuses on the concept of ocular rigidity the biomechanical properties and hydrodynamics of the human eye the basics of anatomy and physiology are explored and the relevant data for the clinician are emphasized throughout the book the engineering aspects as well as the clinical interpretation are presented to provide context ocular rigidity biomechanics and hydrodynamics of the eye summarises recent evidence on ocular rigidity but also provides a complete presentation of the data so far the authors have recently worked on ocular rigidity corneal and globe biomechanics and hydrodynamics and the new up to date data on the subject are highlighted in each chapter the aim is to provide the framework or the understanding of these parameters and to determine their relevance in health and disease this book will be an essential read for all practicing ophthalmologists looking to gain a more in depth understanding of this interesting area of research particularly in refractive surgery and glaucoma

covering all major components of the ocular system this state of the art text is essential for vision scientists biomedical engineers and advanced clinicians with an interest in the role of mechanics in ocular function disease therapeutics and surgery with every chapter leading experts strengthen the arguments that biomechanics is an indispensable and rapidly evolving tool for understanding and managing ocular disease

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this book focuses on the characteristic of glaucomatous optic neuropathy and its relationship with cerebrospinal fluid csf pressure it also explores the potential novel methods to manage glaucoma by adjusting csf pressure this book covers several interesting topics such as why normal tension glaucoma ntg patients still develops into glaucoma without high intraocular pressure iop and whether there are factors other than iop contributing to the pathogenesis of ntg why the role of iop in the pathogenesis of poag becomes vague and controversial this book contains over 40 chapters including numerous images from clinical patients and experiments on gross anatomy pathological tissue and immunohistochemistry electronic speculum etc the ophthalmologists and researchers can also benefit from the clinical cases we hope this book serves as a clinical guidance with practical significant for the understanding prevention and diagnosis of glaucoma

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

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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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