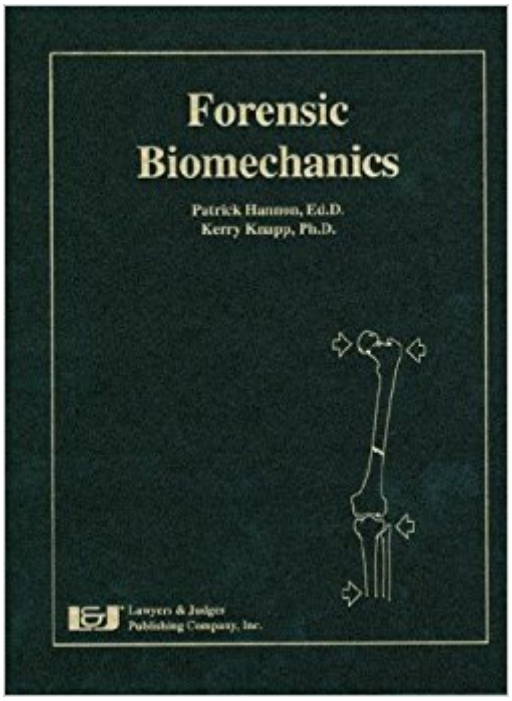
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Forensic Biomechanics



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Synopsis

This reference explains the role of biomechanics, the study of the mechanics of the living body, and the forces acted upon it, in accident and injury cases. This book gives you an in-depth look at the area of human injury biomechanics. It discusses the role of the biomechanist in forensic investigation. The authors discuss biomechanical causation versus medical causation, the basic principles of biomechanics, approaches to the use of biomechanics in investigation, and application of biomechanical principles to impact injuries. They also provide detailed information on the biomechanics of the human body including bone tissue, articular cartilage, soft tissue, blood and fluids, spinal cord and nerve tissue, joints, and extremities. This book contains over 300 diagrams and images plus a CD-ROM of cadaver photos illustrating the principles discussed. This book is invaluable if you are working on an accident or injury case, and need to understand the biomechanics behind the injury.

Book Information

Paperback: 336 pages

Publisher: Lawyers & Judges Publishing Company, Inc.; 1 Pap/Cdr edition (August 1, 2006)

Language: English

ISBN-10: 1933264527

ISBN-13: 978-1933264523

Product Dimensions: 8.3 x 0.7 x 10.9 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 3.4 out of 5 stars 4 customer reviews

Best Sellers Rank: #679,706 in Books (See Top 100 in Books) #169 inÃ Â Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Forensic Medicine #331 inÃ Â Books > Medical Books > Medicine > Internal Medicine > Pathology > Forensic Medicine #475 inÃ Â Books > Science & Math > Physics > Mechanics

Customer Reviews

Patrick R. Hannon, Ed.D. has taught at Northern Arizona University since 1980 and is presently a tenured professor in the Department of Biology (Physiology and Functional Morphology), College of Engineering and Natural Sciences. Dr. Hannon presently teaches undergraduate and graduate level biomechanic and undergraduate level human functional anatomy. He has received grants in biomechanics and the neurosciences from the National Science Foundation, the Air Force Office of Scientific Research, and the United States Department of Defense, and served as the principal

investigator or as the project direction for these research efforts, In addition to his teaching and academic research, he has served as an expert witness in injury biomechanics and human functional anatomy since 1988 and presently owns and operates Hannon Biomechanics Analysis in Flagstaff, Arizona. He has addressed over 1600 civil and criminal matters over the past 17 years and is a member of the American Society of Biomechanics, the Society for Neurosciences, the Society of Automotive Engineers, the Southwestern Association of Traffic Accident Investigators, and the Arizona Homicide Investigators Association. Kerry L. Knapp Ph.D. has a broad educational and experience-based background in the physical sciences, engineering, computer modeling, and analytical techniques. Dr. Knapp’s studies and research in human functional anatomy, physiology, human neuroscience, and human biomechanics form the basis for his current work in injury biomechanics. Dr. Knapp holds two master’s degrees (one in biomechanics) and a Ph.D. in Forensic Biomechanics. Professional affiliations include the Society of Automotive Engineers, the American College of Sports Medicine, and the American Academy of Forensic Sciences. Dr. Knapp has worked full time as a consultant and expert witness in the area of injury biomechanics since 1994. In addition, Dr. Knapp owns and manages Northstar Biokinetics, Inc., a firm specializing in human injury analysis and expert witness consulting in both civil and criminal courts. --This text refers to an out of print or unavailable edition of this title.

As a graduate student, I find this book to be not only very informative but also very easy to read. The chapters are laid out very logically and the information is easy to find. The authors discuss both basic anatomy as well as complex biomechanical scenarios. Pictures/illustrations and diagrams accompany most discussions in the book and are a very helpful addition to the text. I would recommend this book to both students and professionals as a excellent reference book to keep around.

I found this book to be very informative in terms of introducing the field of forensic biomechanics. As a graduate student with general biomechanics experience and knowledge, I found the text to be at an appropriate level to broaden my knowledge in this specific area of the field. The style of writing and presentation of the material is sound and the examples and case studies included serve to highlight and demonstrate practical applications of biomechanical principles.

As a forensic pathologist I was waiting for a textbook of Forensic Biomechanics. This especially helped me during the evaluation of the mechanism of injury in pedestrian vs car accidents. This is

the first textbook of Forensic Biomechanics in US and it will become a reference book which I strongly recommend to attorneys dealing with personal injury and medical examiners.

This is a horrible book. The photographs are cut and pasted from other textbooks. An amateur effort at best. With no attempts at quantification and/or concrete examples, this textbook will not assist the forensic engineer in any types of "analyses".

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