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The ideal introductory text for a rigorous approach to biomechanics, Biomechanical Basis of Movement, Fifth Edition helps build a precise, comprehensive grasp of the full continuum of human movement potential. Focusing on the quantitative nature of biomechanics, this exacting but approachable text applies laws of motion and mechanics to in-depth analysis of specific movements, integrating current literature, meaningful numerical examples, relevant applications, hands-on exercises and functional anatomy, physics, calculus and physiology. Content is organized into sections that build upon each other to offer a structured introduction to biomechanics as it relates to exercise science. The extensively updated Fifth Edition emphasizes clinical relevance with integrated examples and questions and offers an expansive suite of digital resources, including new artwork, animations, and multiple eBook options to make mastery of biomechanics more accessible than ever. Don't miss out on all of the digital resources! Purchase of this title in print format includes the VitalSource(R) eBook, providing access to additional digital resources. Also available for purchase in two additional VitalSource(R) eBook versions providing maximum flexibility to fit your course: Biomechanical Basis of Human Movement: Functional Anatomy, consisting of Section I: Foundations of Human Movement and Section II: Functional Anatomy Biomechanical Basis of Human Movement: Mechanical Analysis of Human Motion, consisting of key content from Section I: Foundations of Human Movement and the full Section III: Mechanical Analysis of Human Motion

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mastery of biomechanics more accessible than ever. **UPDATED!** Content reflects the latest perspectives on functional anatomy and highlights the clinical relevance of biomechanics for successful Allied Health practice. **UPDATED!** Extensively revised illustrations clarify anatomical structures and movements in full color. **NEW!** Animations available within the VitalSource® eBook and on thePoint reinforce functional anatomy and mechanical motion concepts with vibrant detail. **NEW!** Problem calculators built into the VitalSource® eBook, provide essential practice using different formulas to answer questions. Chapter objectives, outlines, and summaries focus your attention on essential concepts and reinforce key takeaways. Review questions at the end of each chapter test your comprehension and challenge you to apply concepts in a clinical context. Don't miss out on all of the digital resources! Purchase of this title in print format includes the VitalSource® eBook, providing access to additional digital resources. Also available for purchase in two additional VitalSource® eBook versions providing maximum flexibility to fit your course: Biomechanical Basis of Human Movement: Functional Anatomy, consisting of Section I: Foundations of Human Movement and Section II: Functional Anatomy Biomechanical Basis of Human Movement: Mechanical Analysis of Human Motion, consisting of key content from Section I: Foundations of Human Movement and the full Section III: Mechanical Analysis of Human Motion

The sixth edition of this popular text introducing human movement to a range of readers, offers the building blocks, signposts and opportunities to think about the application and integration of basic Human Movement theory. It confirms basic knowledge which is then applied to specific areas. Drawing on the expertise of a range of authors from the healthcare professions, the new edition has adopted a themed approach that links chapters in context. The strength of this current edition is the explicit chapter integration which attempts to mimic the realities of human movement. The themed approach explores the psychosocial influences on movement. Integration is further facilitated by increased cross-referencing between the chapters and the innovative use of one themed case study throughout. Framed about a family unit, this case study enables chapter authors to explicitly apply the content of their chapters to the real world of human movement. Taken as a whole, this more integrated format will enable readers to see the reality and complexity of human movement.

Detailing up-to-date research technologies and approaches, *Research Methods in Biomechanics, Second Edition*, assists both beginning and experienced researchers in developing methods for analyzing and quantifying human movement.

This book covers the general laws governing human biomechanics through an extensive review of martial arts techniques and references to fundamental theory. Using straightforward mathematics and physics, this work covers in depth the anatomical foundation of biomechanics and physiological foundation of human motion through specific and relevant martial arts applications. This book also covers the kinematics and kinetics of biomechanics via examples from martial arts and their comparison to different sports techniques. It is written to be used and referenced by biomechanical professionals and martial arts enthusiasts.

Introduction to Sports Biomechanics has been developed to introduce you to the core topics covered in the first two years of your degree. It will give you a sound grounding in both the theoretical and practical aspects of the subject. Part One covers the anatomical and mechanical foundations of biomechanics and Part Two concentrates on the measuring techniques which sports biomechanists use to study the movements of the sports performer. In addition, the book is highly illustrated with line drawings and photographs which help to reinforce explanations and examples.

Biomechanics and Gait Analysis presents a comprehensive book on biomechanics that focuses on gait analysis. It is written primarily for biomedical engineering students, professionals and biomechanists with a strong emphasis on medical devices and assistive technology, but is also of interest to clinicians and physiologists. It allows novice readers to acquire the basics of gait analysis, while also helping expert readers update their knowledge. The book covers the most up-to-date acquisition and computational methods and advances in the field. Key topics include muscle mechanics and modeling, motor control and coordination, and measurements and assessments. This is the go to resource for an understanding of fundamental concepts and how to collect, analyze and interpret data for research, industry, clinical and sport.

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