

Skeletal Muscle Mechanics

From Mechanisms to Function

Edited by **Walter Herzog**

 **WILEY**

Skeletal Muscle Mechanics From Mechanisms To Function

Didier Musso



Skeletal Muscle Mechanics From Mechanisms To Function:

Skeletal Muscle Mechanics W. Herzog, 2000-10-03 *Skeletal Muscle Mechanics From Mechanisms to Function* summarises the variety of approaches used by today's scientist to understand muscle function and the mechanisms of contraction. This book contains research by leading scientists from numerous fields using many different scientific techniques. Topics covered include Cellular and molecular mechanisms of skeletal muscle contraction, Historical perspective of muscle research, The newest developments in techniques for the determination of the mechanical properties of single cross bridges, Theoretical modelling of muscle contraction and force production, Multifaceted approaches to determine the in vivo function of skeletal muscle. This state of the art account is written by internationally recognised authors and will be a valuable resource to researchers of biomechanics in sports science and exercise physiology. I expect this book to be excellent and timely. Professor R McNeill Alexander FRS School of Biology University of Leeds UK **Biomedical Index to**

PHS-supported Research, 1990 **Musculoskeletal Biomechanics** Paul Brinckmann, W. Frobin, Gunnar Leivseth, 2002 *Orthopedic Biomechanics* sheds light on an important and interesting discipline at the interface between medical and natural sciences. Understanding the effects of mechanical influences on the human body is the first step toward developing innovative treatment and rehabilitation concepts for orthopedic disorders. This book provides valuable information on the forces acting on muscles, tendons and bones. Beginning with the step by step fundamentals of physics and mechanics, it goes on to cover the function and loading of joints, movement in two and three dimensions and the properties of biological tissues. This book explains the practical importance of biomechanics, including special chapters addressing the mechanical causes of disk prolapse, load on the spine in sitting and standing positions and the correlation between mechanical loading and bone density. Key Features: Limited use of complex vector equations while providing in depth treatment analysis. Exquisitely illustrated detailed descriptions of the mechanical aspects of every major joint in the body: hip, shoulder, knee and lumbar spine. Extensive references for further information. Valuable appendixes describing the interaction between mechanical and biological functions as well as mathematical tools necessary to understand technically demanding concepts. This book also analyzes techniques for changing the effects on bones and joints through therapy, training, external aids, modified behavior and ergonomic improvements. An essential resource for orthopedists and physical therapists alike, it will help you understand past and current scientific work in the field and how to apply state of the art solutions to the problems you'll encounter on a daily basis. [Research Grants Index](#) National Institutes of Health (U.S.). Division of Research Grants, 1975 **Research**

Awards Index, 1981 **Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute** National Heart, Lung, and Blood Institute, 1978 *Subject Index of Current Research Grants and Contracts Administered by the National Heart and Lung Institute* National Heart and Lung Institute, 1975

Routledge Handbook of Biomechanics and Human Movement Science Youlian Hong, Roger Bartlett, 2008-06-03

The Routledge Handbook of Biomechanics and Human Movement Science is a landmark work of reference Now available in a concise paperback edition it offers a comprehensive and in depth survey of current theory research and practice in sports exercise and clinical biomechanics in both established and emerging contexts Including contributions from many of the world s leading biomechanists the book is arranged into five thematic sections biomechanics in sports injury orthopedics and rehabilitation health and rehabilitation training learning and coaching methodologies and systems of measurement Drawing explicit connections between the theoretical investigative and applied components of sports science research this book is both a definitive subject guide and an important contribution to the contemporary research agenda in biomechanics and human movement science It is essential reading for all students scholars and researchers working in sports biomechanics kinesiology ergonomics sports engineering orthopaedics and physical therapy **Journal of Experimental Biology** ,2006

Cell Physiology Source Book Nicholas Sperelakis,2011-11-29 *Cell Physiology Source Book* gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The 4e contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations

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