

Biomechanics and Motor Control

Defining Central Concepts

Mark L. Latash and Vladimir M. Zatsiorsky

The fields of biomechanics of human motion and motor control have developed rapidly, with research published in biology, psychology, physics, medicine, physical therapy, robotics, and engineering. Scientists in these different disciplines have coined new terms with imprecise or varying meanings. This confusion in meaning has hindered the advancement of the science. *Biomechanics and Motor Control: Defining Central Concepts* clarifies the meaning of the most frequently used terms.

The book consists of four parts. Part I covers biomechanical concepts. It includes joint torques, stiffness and stiffness-like measures, viscosity, damping and impedance, and mechanical work and energy. Part II deals with neurophysiological concepts used in motor control, such as muscle tone, reflex, preprogrammed reactions, efferent copy, and central pattern generator. Part III concentrates on central motor control concepts. They include redundancy and abundance, synergy, equilibrium-point hypothesis, and motor program. Part IV includes posture and prehension from the field of motor behavior. The book is organized to cover smaller concepts within the context of larger concepts. For example, internal models are covered in the chapter on motor programs. Major concepts are not only defined but given context as to how research came to use the term in this manner. There is thus a chapter on each major concept, with a glossary at the end of the book providing a more traditional brief definition of each term.

Key Features:

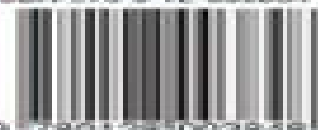
- Organizes key concepts by field
- Features concepts from biomechanics, neurophysiology, motor control, and motor behavior
- Provides a research context for each major concept
- Includes an alphabetical glossary for brief definitions
- Assists researchers in better communicating their findings for adjacent fields



ACADEMIC PRESS

An imprint of Elsevier
store.elsevier.com

ISBN 978-0-12-800384-8



9 780128 003848

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Kevin K Chui, Milagros Jorge, Sheng-Che Yen, Michelle M. Lusardi



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Biomechanics and Motor Control Mark L. Latash, Vladimir Zatsiorsky, 2015-10-06 Biomechanics and Motor Control Defining Central Concepts provides a thorough update to the rapidly evolving fields of biomechanics of human motion and motor control with research published in biology psychology physics medicine physical therapy robotics and engineering consistently breaking new ground This book clarifies the meaning of the most frequently used terms and consists of four parts with part one covering biomechanical concepts including joint torques stiffness and stiffness like measures viscosity damping and impedance and mechanical work and energy Other sections deal with neurophysiological concepts used in motor control such as muscle tone reflex pre programmed reactions efferent copy and central pattern generator and central motor control concepts including redundancy and abundance synergy equilibrium point hypothesis and motor program and posture and prehension from the field of motor behavior The book is organized to cover smaller concepts within the context of larger concepts For example internal models are covered in the chapter on motor programs Major concepts are not only defined but given context as to how research came to use the term in this manner Presents a unified approach to an interdisciplinary fragmented area Defines key terms for understanding Identifies key theories concepts and applications across theoretical perspectives Provides historical context for definitions and theory evolution

Biomechanics and Motor Control Mark L. Latash, Vladimir Zatsiorsky, 2015-10-23 Biomechanics and Motor Control Defining Central Concepts provides a thorough update to the rapidly evolving fields of biomechanics of human motion and motor control with research published in biology psychology physics medicine physical therapy robotics and engineering consistently breaking new ground This book clarifies the meaning of the most frequently used terms and consists of four parts with part one covering biomechanical concepts including joint torques stiffness and stiffness like measures viscosity damping and impedance and mechanical work and energy Other sections deal with neurophysiological concepts used in motor control such as muscle tone reflex pre programmed reactions efferent copy and central pattern generator and central motor control concepts including redundancy and abundance synergy equilibrium point hypothesis and motor program and posture and prehension from the field of motor behavior The book is organized to cover smaller concepts within the context of larger concepts For example internal models are covered in the chapter on motor programs Major concepts are not only defined but given context as to how research came to use the term in this manner

Miller's Review of Orthopaedics E-Book Mark D. Miller, Stephen R. Thompson, 2015-11-27 For nearly a quarter century Miller's Review of Orthopaedics and the accompanying annual Miller Review Course www.MillerReview.org have been must have resources that residents and practitioners have turned to for efficient and effective exam preparation This 7th Edition continues to provide complete coverage of the field's most tested topics now reorganized to be more intuitive more user friendly and easier to read Numerous study aids help you ace your exams a superb art program including full color tables images and pathology slides improved concise bulleted text design

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Progress in Motor Control:

Bernstein's traditions in movement studies Mark L. Latash,1998 Contributors of the 16 papers were charged with reviewing urgent problems of motor control rather than reporting on their own research in order to produce a broad reference for professionals and graduate students in the field Four of them worked directly with Nikolai Bernstein 1896 1966 the Russian scientist who first worked in the field and wh

Measuring Leg Stiffness During Vertical Jumps Artur Struzik,2019-11-09 This book presents a thorough description and critical discussion of different approaches to measuring leg stiffness during vertical jumps as well as practical applications Various topics covered include the applicability of the spring mass linear model of the human motion system leg stiffness controversies and interpretations and computational and measuring methods of leg stiffness during vertical jumps Additionally a description of a research project performed expressly for inclusion in this book is given the study aims to determine normative values for leg stiffness for young healthy non athletes during single vertical jumps to maximal and specific heights A final chapter covers additional perspectives enabling

the reader to acquire different perspectives on measuring leg stiffness during vertical jumps across a breadth of information and interpretations **Measuring Leg Stiffness During Vertical Jumps Theory and Methods** is an ideal book for researchers and practitioners in the fields of biomedical engineering biomechanics and sport sciences

Stroke Rehabilitation - E-Book Glen Gillen, 2015-07-15 Three new chapters broaden your understanding of stroke intervention in the areas of Using Technology to Improve Limb Function Managing Speech and Language Deficits after Stroke and Parenting after Stroke Learning activities and interactive references on a companion Evolve Resources website help you review textbook content and locate additional information

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The Bobath Concept in Adult Neurology Bente E. Bassøe Gjelsvik, Bente Elisabeth Bassøe Gjelsvik, Line Syre, 2016-01-27 New edition of the acclaimed guide to the Bobath Concept for the management of neurological dysfunction The pioneering text by internationally renowned Bobath instructor and therapist Bente Gjelsvik is now in a revised and expanded second edition The Bobath Concept in Adult Neurology Second Edition is updated with the latest theoretical insights research literature and clinical guidelines to provide an evidence based practice oriented guide to the assessment and treatment of patients with lesions of the central nervous system Bridging the gap between theoretical assumptions and everyday therapy practice the book offers an understanding of the interaction between the central nervous system the musculoskeletal system movement and function and helps readers apply their knowledge to form hypotheses through clinical reasoning in the rehabilitation of adults with neurological conditions Highlights Completely revised case histories chapter with entirely new patient cases Key coverage of recent clinical trials and research studies Restructured and reorganized chapters for a more logical presentation of content Concise descriptions of the central nervous system and the neuro musculo skeletal systems motor control and neural and muscular plasticity Useful discussion of the International Classification of Functioning Disability and Health as a basis for assessment More than 200 lucid photographs and illustrations aid in quick grasp of the material The new edition of this seminal volume contains the theoretical information clinical details and practical examples of the Bobath Concept for the management of neurological disability It is a

must read for physical therapists and occupational therapists at all levels who seek the best assessment and treatment outcomes for neurologically impaired individuals Human Robotics Etienne Burdet, David W. Franklin, Theodore E. Milner, 2018-05-04 A synthesis of biomechanics and neural control that draws on recent advances in robotics to address control problems solved by the human sensorimotor system This book proposes a transdisciplinary approach to investigating human motor control that synthesizes musculoskeletal biomechanics and neural control The authors argue that this integrated approach which uses the framework of robotics to understand sensorimotor control problems offers a more complete and accurate description than either a purely neural computational approach or a purely biomechanical one The authors offer an account of motor control in which explanatory models are based on experimental evidence using mathematical approaches reminiscent of physics These computational models yield algorithms for motor control that may be used as tools to investigate or treat diseases of the sensorimotor system and to guide the development of algorithms and hardware that can be incorporated into products designed to assist with the tasks of daily living The authors focus on the insights their approach offers in understanding how movement of the arm is controlled and how the control adapts to changing environments The book begins with muscle mechanics and control progresses in a logical manner to planning and behavior and describes applications in neurorehabilitation and robotics The material is self contained and accessible to researchers and professionals in a range of fields including psychology kinesiology neurology computer science and robotics

Neumann's Kinesiology of the Musculoskeletal System - E-Book Donald A. Neumann, 2024-02-14 2025 Textbook and Academic Authors Association TAA Textbook Excellence Texty Award Winner Selected for Doody's Core Titles 2024 in Physical Therapy With a focus on the normal and abnormal mechanical interactions between the muscles and joints of the body Neumann's Kinesiology of the Musculoskeletal System 4th Edition provides a foundation for the practice of physical rehabilitation This comprehensive research based core text explores kinesiology as it relates to physical rehabilitation in a clinically relevant and accessible manner It presents the language of human movement and acts as a bridge between basic science and clinical management It helps clinicians effectively address the mechanical based changes in movement across a person's lifespan whether in the context of rehabilitation recreation or promotion of health and wellness Full color anatomic and kinesiology illustrations clearly demonstrate the anatomy functional movement and biomechanical principles underlying movement and posture An eBook version included with print purchase provides access to all the text figures and references with the ability to search customize content make notes and highlights and have content read aloud The eBook included with print purchase also features multiple excellent videos of anatomic and kinesiology principles answers to study questions from the print book and additional tables and figures Evidence based approach emphasizes the importance of research in PT decision making More than 900 high quality illustrations provide visual accompaniments to clarify the material Clinical Connections boxes at the end of each chapter highlight or expand upon a particular clinical concept associated with the

kinesiology covered in the chapter Special Focus boxes throughout the text provide numerous clinical examples to demonstrate why kinesiology information is needed Critical thinking questions for selected chapters reinforce the main concepts UPDATED Current evidence based content closes the gap in kinesiology and anatomy science with clinical practice NEW Additional Special Focus boxes and Clinical Connections boxes present kinesiology in a clinical context UPDATED Modified artwork and new figures visually reinforce key concepts NEW An eBook version included with print purchase provides access to all the text figures and references with the ability to search customize content make notes and highlights and have content read aloud It also features videos answers to study questions from the print book and additional tables and figures

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along with enhanced color photographs and case studies it s a great resource for students and rehabilitation professionals alike Comprehensive coverage addresses rehabilitation in a variety of environments including acute care long term care and home health care and outpatient settings Book organized into three parts corresponding with typical patient problems and clinical decision making The latest evidence based research throughout text help you learn clinical decision making skills Case studies present real life scenarios that demonstrate how key concepts apply to clinical decision making and evidence based practice World Health Organization disablement model ICF incorporated to help you learn how to match patient s limitations with the best clinical treatment Multidisciplinary approach in a variety of settings demonstrates how physical therapists can work with the rest of the healthcare team to provide high quality care in orthotic prosthetic rehabilitation The latest equipment and technology throughout text addresses the latest options in prosthetics and orthotics rehabilitation Authoritative information from the Guide to Physical Therapist Practice 2nd Edition is incorporated throughout A wealth of tables and boxes highlight vital information for quick reference and ease of use NEW Color photographs improve visual appeal and facilitates learning NEW Increased evidence based content includes updated citations coverage of new technology such as microprocessors microcontrollers and integrated load cells new evidence on the effectiveness and efficacy of interventions and new evidence on cognitive workload usage NEW Authors Kevin K Chui PT DPT PhD GCS OCS CEEAA FAAOMPT and Sheng Che Steven Yen PT PhD add their expertise to an already impressive list of contributors

Choice ,1997 **Fundamental Orthopedic Management for the Physical Therapist Assistant - E-Book** Robert C. Manske,2021-07-15 NEW Updated content and references are added throughout the book to reflect changes in practice patterns NEW Expanded full color illustrations add clarity to anatomy and procedural drawings and make it easier to learn important concepts NEW Updated chapter summaries highlight essential need to know information NEW Updated educator and student resources on the Evolve website provide tools to make teaching and learning easier **Physical Rehabilitation of the Injured Athlete E-Book** James R. Andrews,Gary L. Harrelson,Kevin E. Wilk,2012-02-01 Physical Rehabilitation of the Injured Athlete is a medical reference book that equips you to apply today s hottest strategies in non operative sports rehabilitation so you can help your patients return to play as quickly and fully as possible Send your players back to the field fast with the latest strategies in non operative sports rehabilitation Get balanced dependable guidance on sports rehabilitation from a multidisciplinary author team that contributes perspectives from orthopaedics and sports medicine athletic training and physical therapy Ensure effective treatment planning with a stronger emphasis on evidence based practice Master the latest with brand new chapters on Developing Treatment Pathways Biomechanical Implications in Shoulder and Knee Rehabilitation Temporomandibular Rehabilitation Thigh Rehabilitation Gait Assessment Functional Movement Assessment and Plyometric Training Drills Access the fully searchable text downloadable image bank and 9 online only appendices at www.expertconsult.com **The New Walford** Ray Lester,2005 Covers 15 broad subject groupings social

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