

CHAPTER 1: FOUNDATIONS OF STRUCTURAL KINESIOLOGY

TERMS:

- **Kinesiology:** study of motion or human movement
- **Biomechanics:** application of mechanical physics to human motion
- **Structural kinesiology:** study of muscles as they are involved in science of movement
 - Both skeletal and muscular structures are involved

ANATOMY VS. FUNCTIONAL ANATOMY

- **Anatomy:** the science of structure of the body, focuses on structure
- **Functional anatomy:** the study of the body components necessary to perform a human movement or function, focuses on function

REFERENCE POSITIONS

- **Anatomical position:** standing in an upright posture, facing straight ahead, feet parallel and close and palms facing forward
- **Fundamental position:** is essentially same as anatomical position except arms are at side and palms are facing the body

BODY REGIONS

- **Axial**
 - Cephalic (head)
 - Cervical (neck)
 - Trunk
- **Appendicular**
 - Upper limbs
 - Lower limbs

PLANES OF MOTION

- Imaginary two-dimensional surface through which a limb or body segment is moved
- Motion through a plane revolves around an axis
- There is a 90-degree relationship between a plane of motion and its axis

AXIS OF ROTATION

- For motion to occur in a plane, the joint must rotate about an axis, oriented 90 degrees to the plane of motion
- The axes are named in relation to their orientation

CARDINAL PLANES AND AXES OF MOTION

- **Sagittal Plane- Frontal Axis**
 - **Sagittal Plane:** divides body into right & left halves (ex- sit-up)
 - **Frontal Axis:** same orientation as frontal plane
 - Perpendicular to sagittal plane
 - Runs medial / lateral
 - Commonly includes flexion & extension
- **Frontal Plane- Sagittal Axis**
 - **Frontal Plane:** divides the body into anterior and posterior halves (ex: jumping jacks)

Chapter 1 structural Kinesiology Answer Key

Paul



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Kinesiology of the Musculoskeletal System - E-Book Donald A. Neumann, 2009-12-07 Brilliantly and abundantly illustrated this dynamic resource is the most comprehensive research based reader friendly text on kinesiology An engaging approach explores the fundamental principles in vivid detail and clarifies the link between the structure and function of the musculoskeletal system to help you ensure a clear confident understanding UNIQUE Clinical Connections boxes in each chapter enhance your understanding and promote practical application Special Focus boxes and clinical examples throughout the text bridge classroom content with real world application to help you succeed in practice Logically organized content establishes an understanding of fundamental concepts before moving on to more complex material to make learning easier Chapter outlines provide a framework for learning and enable you to reference specific topics at a glance UNIQUE A companion Evolve Resources website reinforces your understanding through kinesiology video clips and answers to study questions UNIQUE More than 500 high quality full color illustrations clarify musculoskeletal anatomy and reinforce anatomic concepts Study questions in each chapter test your comprehension and strengthen your critical thinking capabilities

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Irm Princ Human Anatomy Paul, 1995-10 *Essentials of Strength Training and Conditioning* Thomas R. Baechle, Roger W. Earle, National Strength & Conditioning Association (U.S.), 2008 Now in its third edition *Essentials of Strength Training and Conditioning* is the most comprehensive reference available for strength and conditioning professionals In this text 30 expert contributors explore the scientific principles concepts and theories of strength training and conditioning as well as their applications to athletic performance *Essentials of Strength Training and Conditioning* is the most preferred preparation text for the Certified Strength and Conditioning Specialist CSCS exam The research based approach extensive exercise technique

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Section 1, chapters 1 through 10, presents key topics and current research in exercise physiology, biochemistry, anatomy, biomechanics, endocrinology, sport nutrition, and sport psychology, and discusses applications for the design of safe and effective strength and conditioning programs. Section 2, chapters 11 and 12, discusses testing and evaluation, including the principles of test selection and administration, as well as the scoring and interpretation of results. Section 3, chapters 13 and 14, provides techniques for warm up, stretching, and resistance training exercises. For each exercise, accompanying photos and instructions guide readers in the correct execution and teaching of stretching and resistance training exercises. This section also includes a set of eight new dynamic stretching exercises. Section 4 examines the design of strength training and conditioning programs. The information is divided into three parts: anaerobic exercise prescription (chapters 15 through 17), aerobic endurance exercise prescription (chapter 18), and periodization and rehabilitation (chapters 19 and 20). Step-by-step guidelines for designing resistance, plyometric, speed, agility, and aerobic endurance training programs are shared. Section 4 also includes detailed descriptions of how principles of program design and periodization can be applied to athletes of various sports and experience levels. Within the text, special sidebars illustrate how program design variables can be applied to help athletes attain specific training goals. Section 5, chapters 21 and 22, addresses organization and administration concerns of the strength training and conditioning facility manager, including facility design, scheduling policies and procedures, maintenance, and risk management. Chapter objectives, key points, key terms, and self-study questions provide a structure to help readers organize and conceptualize the information. Unique application sidebars demonstrate how scientific facts can be translated into principles that assist athletes in their strength training and conditioning goals.

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Prentice Hall Health's Q & A Review of Massage Therapy Jane Schultz Garofano,2004 Prentice Hall Health s Question and Answer Review of Massage Therapy 3rd Ed has been designed and revised according to the guidelines of the National Certification for Therapeutic Massage and Bodywork NCTMB exam which is administered throughout the United States Canada and Puerto Rico This review book enables the applicant to review relevant material while becoming familiar with the types of questions given on the exam Each question has one answer and a brief explanation with references provided at the end of each chapter The questions are divided into four chapters that cover all areas of therapeutic massage and bodywork and closely correlate in percentage to the NCTMB exam content areas outlined in the NCTMB Candidate Handbook The content is divided into Human Anatomy Physiology and Kinesiology 27% Massage Therapy and Bodywork Theory Assessment and Practice 41 % Clinical Pathology and Recognition of Various Conditions 20% and Professional Standards Ethics and Business Practices 12% for a total of 600 questions Within these content areas additional topics relevant to non Western bodywork and holistic touch therapy modalities as well as ethics and clinical pathology are included **Orthopedic Rehabilitation Clinical Advisor** Derrick Sueki,Jacklyn Brechter,2009-11-25 Access the information you need to confidently diagnose and treat musculoskeletal disorders at a glance With a 5 books in 1 approach this essential clinical reference provides up to date diagnostic and therapeutic information on over 200 orthopedic conditions in a bulleted quick reference format ideal for both students and practitioners Content is written entirely by orthopedic physical therapists and is logically organized to promote accurate efficient differential diagnosis and intervention 5 books in 1 format combines essential content on foundational knowledge clinical reasoning orthopedic pathologies common clinical questions and pharmacology all in one place for fast efficient reference UNIQUE Expert insight and decision making strategies for the rehabilitation of musculoskeletal pathologies help you apply sound clinical reasoning to determine the needs of patients with musculoskeletal disorders UNIQUE Succinct bulleted text organizes information consistently for easy access Clinician oriented profiles cover 200 orthopedic pathologies with considerations specific to your needs in orthopedic rehabilitation practice 51 drug class monographs detail indications dosages contraindications and physical therapy implications to help you better understand drug interactions and more effectively manage patients *AB Bookman's Weekly* ,1989-09 **Subject Guide to Books in**

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