

Kinetic Anatomy

Kinetic Anatomy 3rd Edition Kinetic Anatomy Kinetic Anatomy Kinetic Anatomy Kinetic Anatomy Kinetic Anatomy Text and Interactive Skeleton Sports and Kinetic Essentials of Interactive Functional Anatomy *Dynatomy Robert S. Behnke Rachel M. Koldenhoven Robert Behnke Robert S. Behnke Robert S. Behnke Human Kinetics William Charles Whiting*

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Kinetic anatomy is an introductory anatomy text for undergraduate courses in sport science athletic training physical education and coaching it breaks down the elements of structural human anatomy into four key sections and encourages students to learn anatomy through hands on experiments

with nearly 400 full color anatomical illustrations kinetic anatomy fifth edition with hkpropel access introduces musculoskeletal anatomy by systematically assembling each component of the human body readers will study bones ligaments joints muscles nerves and blood vessels

Kinetic anatomy fourth edition with hkpropel access gives students a firm concept of musculoskeletal anatomy by systematically assembling each component of the human body layer by layer readers will study bones ligaments joints and muscles as well as the nerves and blood vessels that supply these muscles that are essential for movement with full color visual aids and activities that invite readers to apply their understanding of structural anatomy to their own lives the fourth edition is ideally suited for students

studying physical activity because it explores how the structural anatomy of the human body facilitates movement part i of the text introduces the basics of structural anatomy it describes how bones joints muscles nerves and other essential anatomy work together to allow for fundamental movement part ii details the anatomy of the upper extremity region including the shoulder elbow forearm wrist and hand part iii of the text explores the anatomy of the head spinal column thorax and pelvis these chapters include unique coverage not found in other anatomy texts explaining how the brain heart and lungs as the power centers of the nervous cardiovascular and respiratory systems affect movement part iv discusses the anatomy of the lower extremity region the hip thigh knee lower leg ankle and foot parts ii iii and iv each end with a summary table that offers a quick reference for the components of the body region featured in that part kinetic anatomy fourth edition contains nearly 400 photos illustrations and infographics to help readers visualize structural anatomy and engage with their coursework throughout the book hands on exercises instruct readers to physically identify anatomical structures on themselves or on a partner and focus on sidebars illustrate circumstances in everyday activity that relate to the specific anatomical structures in the text pop quizzes provide readers an opportunity to strengthen their clinical reasoning skills by asking them to identify the muscles shown in the accompanying photo the fourth edition is further enhanced with the addition of new online learning tools all of which can be assigned and progress tracked by instructors directly through hkpropel anatomy labeling and coloring sheets offer students nearly 100 interactive activities that test their knowledge of anatomical structures and function learning activities true false multiple choice and fill in the blank questions and functional movement exercises ensure students have a firm grasp of key points from each chapter chapter quizzes assessments may also be assigned these are automatically graded to test comprehension of critical concepts readers of kinetic anatomy fourth edition will learn what structures are involved in movement and how those structures should function allowing them to identify problems and correct them to enhance physical activity anyone interested in just how their body functions during physical activity and how certain overuse or misuse can affect certain anatomical structures will benefit from this book note a code for accessing hkpropel is included with all new print books

created primarily for those who will work in physical activity fields the third edition of kinetic anatomy continues to building on its previous editions to assert itself as the ideal resource for learning structural anatomy and how it affects movement the text gives

students a firm concept of musculoskeletal anatomy by systematically assembling each component of the human body layer by layer readers will study bones ligaments joints and muscles on the bones as well as the nerves and blood vessels that supply these muscles that are essential for movement kinetic anatomy third edition includes coverage of three major structures that are not often considered when studying the anatomy of movement the brain heart and lungs as the centerpieces for the nervous cardiovascular and respiratory systems these structures are essential to human movement and are highlighted throughout the text where appropriate in addition other fundamental features make this resource a valuable tool for learning and teaching human anatomy a one year subscription to musculoskeletal anatomy review an online anatomy program provides an interactive forum for reviewing regional structural anatomy a new chapter on the head completes the regional approach followed in the text more information on muscle and motor units helps broaden information on movement potential in selected sport activities expanded discussion on joint strength and movement and the function of muscles agonists antagonists stabilizers and synergists levers and exercise supports understanding of how the human body is constructed full color photos and illustrations enhance the learning experience new functional movement exercises provide students with the opportunity for practical application of their studies by asking them to identify the prime mover antagonist fixator and synergist muscle in a particular movement hands on exercises throughout the book offer students practice in physically identifying anatomical structures on themselves or on a partner included with each new text is a key code allowing students one year access to the online anatomy program musculoskeletal anatomy review this engaging supplement to the text offers a regional review of structural anatomy with exceptionally detailed high quality graphic images the majority provided by primal pictures students can mouse over muscles and click for muscle identification and each chapter features a pretest and posttest evaluation to help students pinpoint knowledge gaps and test their retention the pretest can be taken multiple times and is generated randomly so it will never be the same but the posttest may be taken only once test results can be printed and turned in so instructors have the option to use the tests as a grading tool to further facilitate learning each chapter in the book concludes with a review of the key terms referred to in the chapter suggested learning activities and review questions in multiple choice and fill in the blank formats the answers to the questions are provided at the end of the book for instructors a new image bank accompanies the updated instructor guide and test package to aid in delivering the course content

kinetic anatomy third edition is an outstanding introductory resource for those who plan to specialize in any field related to physical activity readers will learn what structures are involved in movement and how those structures should function allowing them to identify problems and correct them to enhance physical activity

essentials of interactive functional anatomy ifa essentials will help students and professionals thoroughly review components of structural anatomy through computer graphic models of human anatomy derived from mri scan data students and professionals alike will also be able to view fully interactive 3 d animations that detail muscle and joint function a scaled down version of interactive functional anatomy this software features a complete high resolution 3 d model of the human musculature the model can be rotated and allows for 11 layers of anatomy to be visually removed from skin to bone with a strip away technique specific muscles within the 3 d model can be highlighted for viewing accompanying text about the selected muscle such as name agonists antagonists proximal and distal attachments nerve innervation blood supply and primary and secondary actions text also accompanies specific ligaments within the model providing information on function injury mechanism and pathology of injury ifa essentialsalso includes the following 34 animations each of which can be viewed from four different angles show clinical muscle function and providing students with a strong sense of the movement and motions around joints four animations of gross human motions demonstrate complete body movements such as sit ups and push ups coupled with live action video clips showing the electrical stimuli of active muscles views of any specific structure on the screen can be rotated up to 360 degrees and stopped at any point for viewing related text on structures further defines the structure being viewed the anatomy text of ifa essentialsincludes bones ligaments muscles tendons retinacula capsules cartilage discs and membranes the program includes detailed animations for the shoulder elbow and forearm wrist and hand trunk hip knee and ankle and foot muscles that shorten and lengthen around each joint are color coded to show their functions ifa essentialsalso offers an interactive quiz students can select the level of difficulty and number of quiz questions then using a multiple choice format they are asked to identify or locate various structures on the model for a complete selection of primal pictures software visit humankindetics com primal minimum system requirements windows windows 98 2000 me xp pentium processor or higher at least 32 mb ram monitor set to 800 x 600 or greater high color display macintosh power mac system 8 6 9 osx at least 64 mb ram monitor set to 800 x 600 or greater monitor set to thousands of colors

dynatomy brings to life the wonders of human movement and applied anatomy by emphasizing dynamic muscular motions rather than structural anatomy the book includes a companion dvd rom essentials of interactive functional anatomy which provides an engaging review of structural anatomy

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