



Kinesiology, Scientific Basis of Human Motion - 10th edition

By Kathryn Luttgns

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Nancy Hamilton, Wendi Weimar, Kathryn Luttgens. Since the 1950s, *Kinesiology: Scientific Basis of Human Motion* has remained the definitive kinesiology text for college students. The twelfth edition continues the text's tradition of examining human motion through the integrated presentation of anatomy and biomechanics and applying that knowledge to a wide variety of motor skills. This edition retains the text's strong coverage of physiology combined with current scholarship in biomechanics as applied to motor skills. [show more.](#)

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Kinesiology. Scientific study of human movement. Anatomical and physiological elements that carry out movements. Purposes of kinesiology: -Move safely -Move effectively -Move efficiently. Biomechanics. The application of the principles of mechanical physics to understand movements and actions of human bodies and sport implements. Kinesiology and biomechanics are intricately related. Study of factors relating to nonmoving systems or those characterized by steady motion, such as center of gravity in positions of balance. center of gravity ex more stable: runner leaning forward. Kinematics. Since the 1950s, Kinesiology: Scientific Basis of Human Motion has remained the definitive kinesiology text for college students. The twelfth edition continues the text's tradition of examining human motion through the integrated presentation of anatomy and biomechanics and applying that knowledge to a wide variety of motor skills. This edition retains the text's strong coverage of physiology combined with current scholarship in biomechanics as applied to motor skills. Kinesiology book. Read 4 reviews from the world's largest community for readers. This introductory text provides undergraduate students with the basics o... Start by marking Kinesiology: Scientific Basis of Human Motion as Want to Read: Want to Read saving... Want to Read. Currently Reading. Read. Other editions. Enlarge cover. Presentation on theme: "KINESIOLOGY Scientific Basis of Human Motion, 12th edition" Presentation transcript: 1 Chapter 6:Part 1 The Upper Extremity: The Elbow, Forearm, Wrist, And Hand KINESIOLOGY Scientific Basis of Human Motion, 12th edition Hamilton, Weimar & Luttgens Presentation Created by TK Koesterer, Ph.D., ATC Humboldt State University Revised by Hamilton & Weimar Copyright © 2012 by The McGraw-Hill Companies, Inc. All rights reserved. 20 Structure of Metacarpophalangeal Joints Fig 6.17 Joints at bases of four fingers, uniting proximal phalanges with metacarpals. Condylloid joints Encased in capsules Protected by collateral ligaments. Also a dorsal ligament.