



Mechanics, Heat, and the Human Body: An Introduction to Physics

Howard D. Goldick

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This unique introduction to physics for readers who are particularly interested in the human body covers a limited number of distinct physics topics (related to mechanics and heat) in great depth and with many examples and problems that relate directly to readers' interests. Each topic is developed quantitatively using high school-level algebra (linear equations, simultaneous equations), trigonometric functions, and vectors. Applications focus on typical situations--e.g., the need for and proper use of a cane; the need for heat transfer from the body to the environment during exercise and the relative contributions of the various mechanisms (convection, radiation, evaporation of sweat); the relation between energy ingested as food and energy expended during exercise; etc. Motion; Force; Vectors; Newton's Second Law; Momentum And Impulse; Angular Motion; Torque; Shoulder; Knee; Lower Back; FHP; Heat And Energy; Conservation Of Energy; Work; Chemical Energy; Elastic Energy; Nuclear Energy. For premedical students, Physical Therapists, and Occupational Therapists.

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