



Physics of the Human Body

By Richard P. McCall

Johns Hopkins University Press. Paperback. Book Condition: new. BRAND NEW, Physics of the Human Body, Richard P. McCall, Richard P. McCall's fascinating book explains how basic concepts of physics apply to the fundamental activities and responses of the human body, a veritable physics laboratory. Blood pumping through our veins is a vital example of Poiseuille flow; the act of running requires friction to propel the runner forward; and the quality of our eyesight demonstrates how properties of light enable us to correct near- and far-sightedness. Each chapter discusses a fundamental physics concept and relates it to the anatomy and physiology of applicable parts of the body. Topics include motion, fluids and pressure, temperature and heat, speech and hearing, electrical behaviors, optics, biological effects of radiation, and drug concentrations. Clear and compelling, with a limited amount of math, McCall's descriptions allow readers of all levels to appreciate the physics of the human physique. Physics of the Human Body will help curious high school students, undergraduates with medical aspirations, and practicing medical professionals understand more about the underlying physics principles of the human body.



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