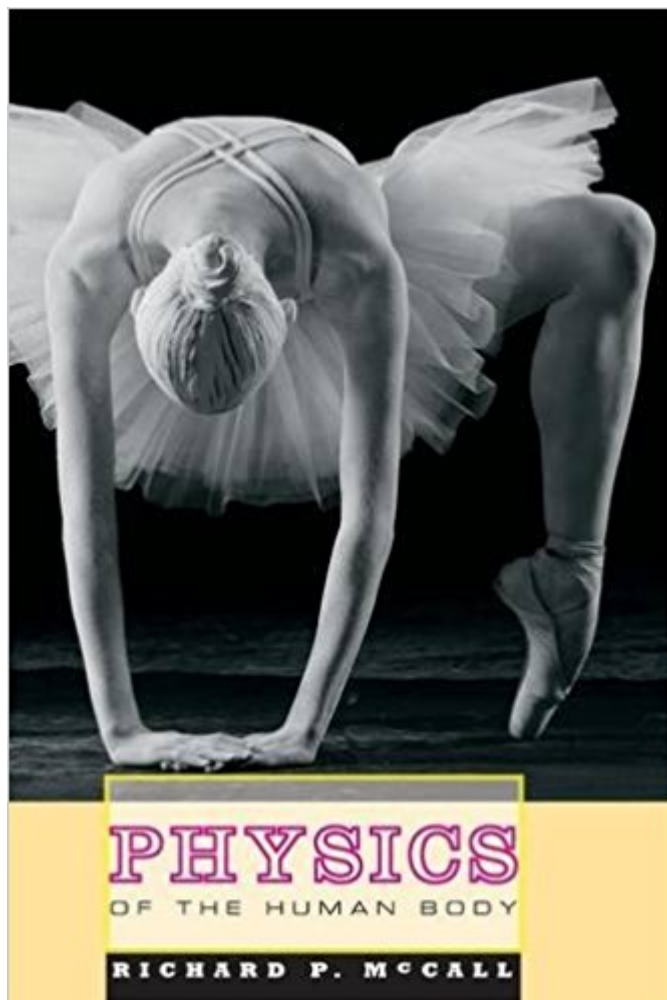


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# Physics Of The Human Body



## Synopsis

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.

## Book Information

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## Customer Reviews

"Everything from the movement of blood through the circulatory system to how our bodies maintain their heat, *Physics of the Human Body* is a fascinating and very highly recommended read, a choice addition to any biological science collection." (Midwest Book Review)"Looking at the body as a physics laboratory lends a fresh perspective, from how the properties of light affect eyesight to the fluid dynamics of the circulatory system. A good resource for doctors or the general reader." (Science News)"Highly motivated and intellectually curious pre-meds will find a persuasive answer

to the question: Why do they make me study physics anyway?" (Marc Sher American Journal of Physics)

Richard P. McCall is a professor of physics at the St. Louis College of Pharmacy.

Good book, easy to read. Makes you think of physics in a different way

I was expecting a book that would be a better link at the mechanical workings of our bodies. The book lacks color images and relies on blackline drawings which do not help show the physics of how joints and systems in the body work.

A wonderful yet difficult subject presented in a very in a clear, undated understandable fashion. I highly recommend it to one and all.

The human body is so complex with so many different systems, that it still inspires wonder even in today's scientists. "Physics of the Human Body" discusses the science of the physics behind the human body, and does not just focus on the exterior gross motor skills of movement and muscles. Everything from the movement of blood through the circulatory system to how our bodies maintain their heat, "Physics of the Human Body" is a fascinating and very highly recommended read, a choice addition to any biological science collection.

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