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Middlebury College Professor Richard Wolfson

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Physics is the fundamental science. It explains how the universe behaves at every scale, from the subatomic to the extragalactic. It describes the most basic objects and forces and how they interact. Its laws tell us how the planets move, where light comes from, what keeps birds aloft, why a magnet attracts and also repels, and when a falling object will hit the ground, and it gives answers to countless other questions about how the world works.

Physics also gives us extraordinary power over the world, paving the way for devices from radios to GPS satellites, from steam engines to nanomaterials. It's no exaggeration to say that every invention ever conceived makes use of the principles of physics. Moreover, physics not only underlies all of the natural sciences and engineering, but also its discoveries touch on the deepest philosophical questions about the nature of reality.

Which makes physics sound like the most complicated subject there is. But it isn't. The beauty of physics is that it is simple, so simple that anyone can learn it. In 60 enthralling lectures, *Physics and Our Universe: How It All Works* proves that case, giving you a robust, introductory college-level course in physics. This course doesn't stint on details and always presents its subject in all of its elegance-yet it doesn't rely heavily on equations and mathematics, using nothing more advanced than high school algebra and trigonometry.

Author Professor Richard Wolfson is a noted physicist and educator at Middlebury College.

60 lectures in this book include: The Fundamental Science, Languages of Physics, Describing Motion, Falling Freely, It's a 3-D World!, Going in Circles, Causes of Motion, Using Newton's Laws-1-D motion, Action and Reaction, Newton's Laws in 2 and 3 Dimensions, Work and Energy, and MANY MORE.



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