



## College Physics (with PhysicsNow)

By Raymond A. Serway, Jerry S. Faughn, Chris Vuille, Charles A. Bennett

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COLLEGE PHYSICS provides students with a clear and logical presentation of the basic concepts and principles of physics. The authors include a broad range of contemporary applications to motivate students' understanding of how physics works in the real world. In addition, new pedagogy, reflecting the findings of physics education research, has been added to help students improve their problem-solving skills and conceptual understanding. The text's flexible, accessible, and focused presentation, coupled with extraordinary text/media integration through PhysicsNow, gives instructors and students the tools they need to succeed. This text, which covers the standard topics in classical physics and 20th century physics, is divided into six parts. Newtonian mechanics and the physics of fluids (Part I); heat and thermodynamics (Part II); wave motion and sound (Part III); electricity and magnetism (Part IV); properties of light and the field of geometric and wave optics (Part V); and an introduction to special relativity, quantum physics, and atomic and nuclear physics (Part VI).

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### **Review**

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"I was very happy to find both Newton's Law of Gravitation, and the formula for the period of a simple pendulum, both appearing in this chapter. By and large, I think the presentation in this book of the notions of velocity and acceleration to be quite successful."

"Your book gives great examples. Would offer no changes to that! The organization of SandF reflects the fact that the authors are (of necessity) physicists; what I mean by this is that the order in which mechanics is presented reflects the way a physicist would think. My opinion remains the same; it is one of the best textbooks at this level."

"The treatment of friction is excellent."

### **About the Author**

Raymond A. Serway received his Doctorate at Illinois Institute of Technology and is Professor Emeritus at James Madison University. In 1990, he received the Madison Scholar Award at James Madison University, where he taught for 17 years. Dr. Serway began his teaching career at Clarkson University, where he conducted research and taught from 1967 to 1980. He was the recipient of the Distinguished Teaching Award at Clarkson University in 1977 and of the Alumni Achievement Award from Utica College in 1985. As Guest Scientist at the IBM Research Laboratory in Zurich, Switzerland, he worked with K. Alex Müller, 1987 Nobel Prize recipient. Dr. Serway also was a visiting scientist at Argonne National Laboratory, where he collaborated with his mentor and friend, Sam Marshall. Dr. Serway is also the co-author of *PRINCIPLES OF PHYSICS*, Fourth Edition, *PHYSICS FOR SCIENTISTS AND ENGINEERS*, Sixth Edition, *MODERN PHYSICS*, Third Edition, and the high-school textbook *PHYSICS*, published by Holt, Rinehart, & Winston. In addition, Dr. Serway has published more than 40 research papers in the field of condensed matter physics and has given more than 60 presentations at professional meetings. Dr. Serway and his wife Elizabeth enjoy traveling, golfing, fishing, and spending quality time with their four children and six grandchildren.

Jerry S. Faughn earned his doctorate at the University of Mississippi. He is Professor Emeritus and former Chair of the Department of Physics and Astronomy at Eastern Kentucky University. He is co-author of a non-mathematical physics text and a physical science text for general education students, and (with Dr. Serway) the high-school textbook *PHYSICS*, published by Holt, Rinehart, & Winston. He has taught courses ranging from the lower division to the graduate level, but his primary interest is in students just beginning to learn physics. He has been director of a number of NSF and state grants, many of which were devoted to the improvement of physics education. He believes that there is no greater calling than to be a teacher and an interpreter of physics for others.

Chris Vuille is an associate professor of physics at Embry-Riddle Aeronautical University, Daytona Beach, Florida, the world's premier institution for aviation higher education. He received his Doctorate in physics at the University of Florida in 1989. While he has taught courses at all levels, including post-graduate, his primary interest and responsibility has been the delivery of introductory physics. He has received a number of awards for teaching excellence, including the Senior Class Appreciation Award (three times), which is conferred by the class of graduating seniors. He conducts research in general relativity, astrophysics, cosmology, and quantum theory, and was a participant in the JOVE program, a special three-year NASA grant program during which he studied properties of neutron stars. His work has appeared in a number of scientific journals, and in addition in ANALOG SCIENCE FICTION/SCIENCE FACT magazine, where he has been a featured science writer. He created and produced, with the support of ERAU and the College of Arts and Sciences, the Elston Memorial Lecture on Gravitation, an annual event featuring public lectures by world-class scientists such as Kip Thorne of Cal Tech. Dr. Vuille enjoys tennis, lap swimming, yoga and karate, plays guitar and classical piano, and is a former chess champion of St. Petersburg (his home town) and Atlanta.

Charles A. Bennett received his Doctorate at North Carolina State University, and is Professor of Physics at the University of North Carolina at Asheville. His research interests include quantum and physical optics, and laser applications in environmental and fusion energy research. He has collaborated with Oak Ridge National Laboratory since 1983, where he is currently an adjunct research and development associate of the Advanced Laser and Optical Technology and Development group. In addition to his work in optics, Dr. Bennett has a long record of innovation in educational technology, particularly in the integration of active media into on-line homework. He is a past director of the UNCA Center for Teaching and Learning, and has received UNCA's most prestigious recognition for scholarship: the Ruth and Leon Feldman Professorship for 1996-1997.

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