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By Hans C. Ohanian, John T. Markert Ph.D.

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The text presents a modern view of classical mechanics and electromagnetism for today's science and engineering students, including coverage of optics and quantum physics and emphasizing the relationship between macroscopic and microscopic phenomena.

Organized to address specific concepts and then build on them, this highly readable text divides each chapter into short, focused sections followed by review questions. Using real-world examples, the authors offer a glimpse of the practical applications of physics in science and engineering, developing a solid conceptual foundation before introducing mathematical results and derivations (a basic knowledge of derivatives and integrals is assumed).

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Editorial Review

About the Author

Hans C. Ohanian received his B.S. from the University of California, Berkeley, and his Ph.D. from Princeton University, where he worked with John A. Wheeler. He has taught at Rensselaer Polytechnic Institute, Union College, and the University of Vermont. He is the author of several textbooks spanning all undergraduate levels: Physics, Principles of Physics, Relativity: A Modern Introduction, Modern Physics, Principles of Quantum Mechanics, Classical Electrodynamics, and, with Remo Ruffini, Gravitation and Spacetime. He is also the author of dozens of articles dealing with gravitation, relativity, and quantum theory, including many articles on fundamental physics published in the American Journal of Physics, where he served as associate editor for some years. He lives in Vermont.

John T. Markert received his B.A. in Physics and Mathematics from Bowdoin College (1979) and his M.S. (1984) and Ph.D. (1987) in Physics from Cornell University, where he was recipient of the Clark Award for Excellence in Teaching. After postdoctoral research at the University of California, San Diego, he joined the faculty at the University of Texas, Austin, in 1990, where he has received the College of Natural Sciences Teaching Excellence Award and is currently Chair of the Department and Professor of Physics. His introductory physics teaching methods emphasize context-based approaches, interactive techniques, and peer instruction. He is author or coauthor of over 120 journal articles, including many on experimental condensed matter physics research in superconductivity, magnetism, and nanoscience. He lives in Austin, Texas, with his wife and children.

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