



Modern Physics for Scientists and Engineers, 3rd Edition

By Stephen T. Thornton, Andrew Rex

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Editorial Review

Review

"One of the most interesting aspects of this text is the way in which the authors have placed the physics discoveries within the historical context. Some books treat all of those same topics, but occasionally the discoveries seem to appear from nowhere, as if there was no debate or ongoing problem within the scientific community."

"Thornton and Rex provides just the right transition from introductory-level coursework, pointing students towards the rest of the undergraduate physics curriculum with just the right level of instruction and enough clarity to ensure continued interest."

About the Author

Stephen Thornton is Professor of Physics at the University of Virginia. He has over 130 research publications in experimental nuclear physics and has done research at several accelerator facilities in the United States and Europe. He has directed the research for 25 graduate students. He has held two U.S. Senior Fulbright-Hays Fellowships and a Max-Planck Fellowship to do research at the Max Planck Institute for Nuclear Physics in Heidelberg, Germany on two occasions. He was the founding Director of the University of Virginia Institute of Nuclear and Particle Physics. He has published three college textbooks for physics: "Classical Dynamics" and "Modern Physics" (both published with Brooks Cole, a part of Cengage Learning), and "Physics for Scientists and Engineers." He is currently Director of the Master of Arts in Physics Education program at the University of Virginia, which has graduated more than 70 high school physics teachers. He is a Fellow of the American Physical Society and a member of several organizations including American Association of Physics Teachers, American Association for the Advancement of Science, National Science Teachers Association, Virginia Association of Science Teachers (past President), and the Virginia Math and Science Coalition. He has developed multiple courses for undergraduate students and high school physics teachers.

Andrew Rex has been Professor of Physics at the University of Puget Sound since 1982. He frequently teaches the Modern Physics course, so he has a deep sense of student and instructor challenges. He is the author of several textbooks, including "Modern Physics," "Essential College Physics," and "Integrated Physics and Calculus." In addition to textbook writing, he studies foundations of the second law of thermodynamics, which has led to the publication of several papers and the widely acclaimed book, "Maxwell's Demon: Entropy, Information, Computing."

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