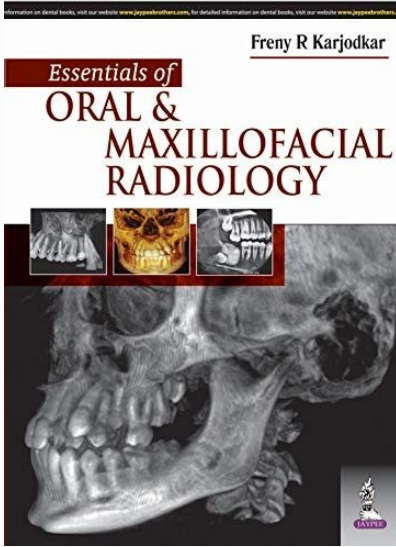
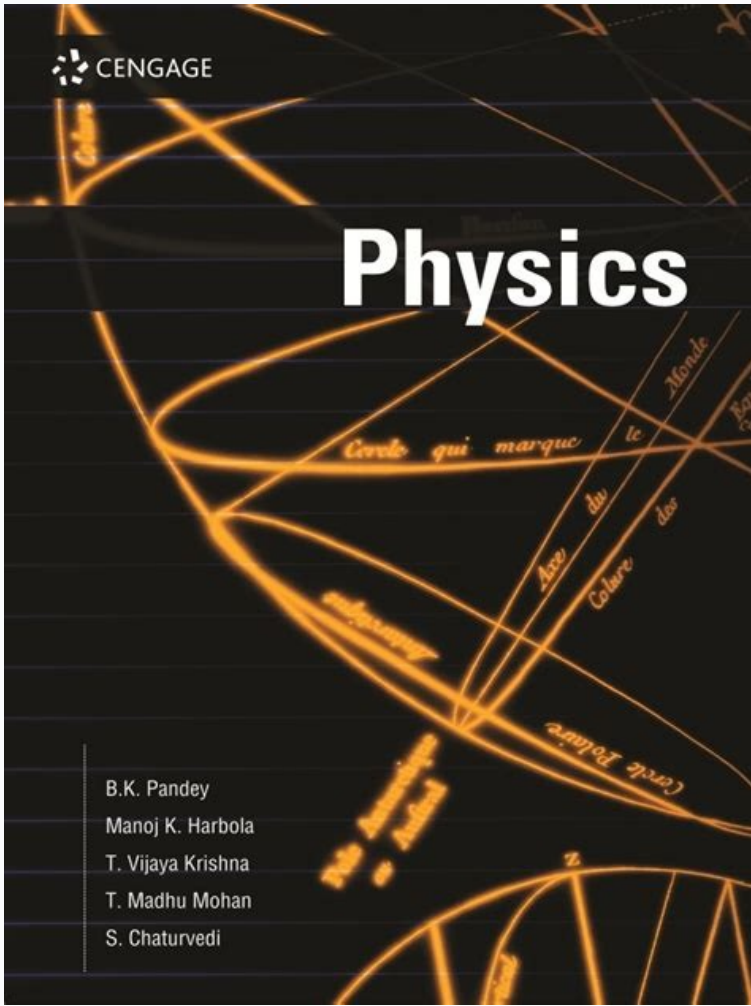
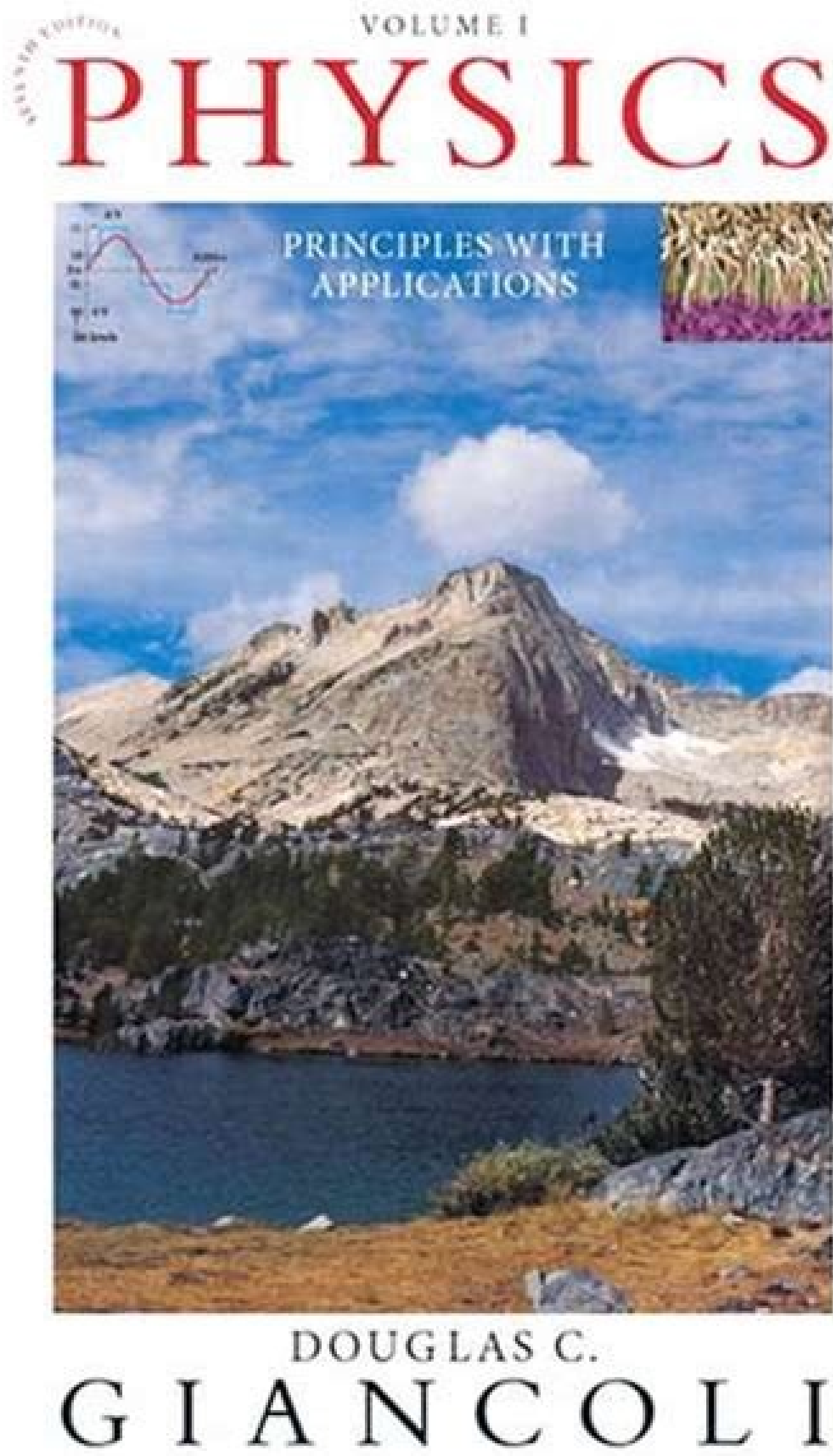


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Microscopic Theory of the Refractive Index

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Abstract

We examine the bulk refractive index from the viewpoint of modern first-principles materials physics. We first argue that the standard formula, $n^2 = \epsilon_r \mu_r$, is generally in conflict with fundamental principles on the microscopic level. Instead, it turns out that an allegedly approximate relation, $n^2 = \epsilon_r$, which is already being used for most practical purposes, can be justified theoretically in the long-wavelength limit. More generally, starting from the fundamental, Lorentz-covariant electromagnetic wave equation in materials as used in plasma physics, we rederive a well-known, three-dimensional form of the wave equation in materials and thereby clarify the connection between the covariant *fundamental response tensor* and the various cartesian tensors used to describe optical properties. Finally, we prove a general theorem by which the fundamental, covariant wave equation can be reformulated concisely in terms of the microscopic dielectric tensor.

Keywords: index of refraction, electrodynamics of media, ab initio materials physics

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About one-third of the worked examples include "What If?" extensions that further reinforce conceptual understanding. Every "Worked Example" can be assigned and graded through the Enhanced WebAssign homework management system. TWO NEW CONTEXTS FEATURES. Two new Contexts features were added to the "Physics in Context" organization of the text. Context 4 (Ch. 15) now addresses the issue of heart attacks, while Context 7 (Ch. 22-23) now covers the use of magnetism in medicine. THOROUGH REVISION OF ARTWORK. Every piece of artwork in the Fifth Edition was revised in a new and modern style that helps express the physics principles as well as making certain that the physical situations presented corresponded exactly to the textual discussion at hand. "Focus Pointers," a new feature for many pieces of art, either point out important aspects of a figure or guide students through a process illustrated by the artwork or photo. This new art style also helps those students who are visual learners. BIOMEDICAL APPLICATIONS. For biology and pre-med students, "BIO" icons highlight practical and interesting applications of physical principles to biology and medicine. More life-science applications in the problems sets and worked examples are also included in this new edition. REVISED QUESTIONS SET ORGANIZATION. The organization of the questions set has been completely overhauled by the authors. The "Questions" section is now divided into two sections: "Objective Questions" and "Conceptual Questions." OBJECTIVE QUESTIONS. "Objective Questions" are multiple-choice, true/false, ranking, or other multiple-guess-type questions. Some require calculations designed to facilitate students' familiarity with the equations, the variables used, the concepts the variables represent, and the relationships between the concepts. Others are more conceptual in nature and are designed to encourage conceptual thinking. 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A student must determine what questions need to be asked and what calculations need to be performed; based on the results the student must determine why the situation described is not possible. Chapter Summaries - Each chapter contains a "Summary" of important concepts and equations along with a section called "Analysis Models for Problem Solving," to better prepare students for lectures and exams. About the Authors Raymond A. Serway Raymond A. Serway (PhD, Illinois Institute of Technology) is Professor Emeritus at James Madison University. His honors and awards include an honorary doctorate degree from his alma mater, Utica College, the 1990 Madison Scholar Award at James Madison University, the Distinguished Teaching Award at Clarkson University in 1977, and 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. He was a visiting scientist at Argonne National Laboratory, where he collaborated with his mentor and friend, the late Sam Marshall. Dr. Serway is the coauthor of COLLEGE PHYSICS, Eleventh Edition; PHYSICS FOR SCIENTISTS AND ENGINEERS, Ninth Edition; PRINCIPLES OF PHYSICS, Fifth Edition; ESSENTIALS OF COLLEGE PHYSICS; MODERN PHYSICS, Third Edition; and the high school textbook PHYSICS, published by Holt McDougal. He has published more than 40 research papers in the field of condensed matter physics and has given more than 60 presentations at professional meetings. John W. Jewett John W. Jewett, Jr., earned his undergraduate degree in physics at Drexel University and his doctorate at Ohio State University, specializing in optical and magnetic properties of condensed matter. Dr. Jewett began his academic career at Richard Stockton College of New Jersey, where he taught from 1974 to 1984. He is currently Emeritus Professor of Physics at California State Polytechnic University, Pomona. Through his teaching career, Dr. Jewett has been active in promoting science education. In addition to receiving four National Science Foundation grants, he helped found and direct the Southern California Area Modern Physics Institute (SCAMPI) and Science IMPACT (Institute for Modern Pedagogy and Creative Teaching). Dr. Jewett's honors include the Stockton Merit Award at Richard Stockton College in 1980, selection as Outstanding Professor at California State Polytechnic University for 1991-1992, and the Excellence in Undergraduate Physics Teaching Award from the American Association of Physics Teachers (AAPT) in 1998. In 2010, he received an Alumni Lifetime Achievement Award from Drexel University in recognition of his contributions in physics education. He has given over 100 presentations both domestically and abroad, including multiple presentations at national meetings of the AAPT. Dr. Jewett is the author of THE WORLD OF PHYSICS: MYSTERIES, MAGIC, AND MYTH, which provides many connections between physics and everyday experiences. In addition to his work on PHYSICS FOR SCIENTISTS AND ENGINEERS, he is the coauthor for PRINCIPLES OF PHYSICS, Fifth Edition, as well as GLOBAL ISSUES, a four-volume set of instruction manuals in integrated science for high school. Dr. Jewett enjoys playing keyboard with his all-physicist band, traveling, and collecting antique quack medical devices that can be used as demonstration apparatus in physics lectures. Most importantly, he relishes spending time with his wife Lisa and their children and grandchildren. An Invitation to Physics. 1. Introduction and Vectors. Context 1: Alternative-Fuel Vehicles. 2. Motion in One Dimension. 3. Motion in Two Dimensions. 4. The Laws of Motion. 5. More Applications of Newton's Laws. 6. Energy of a System. 7. Conservation of Energy. Context 1 Conclusion: Present and Future Possibilities. 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