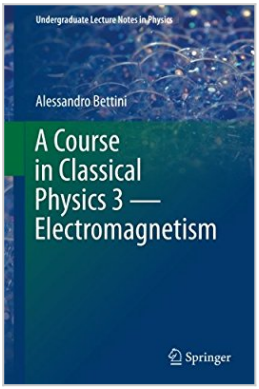

A Course in Classical Physics 3 ? Electromagnetism (Undergraduate Lecture Notes in Physics)

By Alessandro Bettini

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Focusing on electromagnetism, this third volume of a four-volume textbook covers the electric field under static conditions, constant electric currents and their laws, the magnetic field in a vacuum, electromagnetic induction, magnetic energy under static conditions, the magnetic properties of matter, and the unified description of electromagnetic phenomena provided by Maxwell’s equations.

The four-volume textbook as a whole covers electromagnetism, mechanics, fluids and thermodynamics, and waves and light, and is designed to reflect the typical syllabus during the first two years of a calculus-based university physics program.

Throughout all four volumes, particular attention is paid to in-depth clarification of conceptual aspects, and to this end the historical roots of the principal concepts are traced. Emphasis is also consistently placed on the experimental basis of the concepts, highlighting the experimental nature of physics. Whenever feasible at the elementary level, concepts relevant to more advanced courses in quantum mechanics and atomic, solid state, nuclear, and particle physics are included.

The textbook offers an ideal resource for physics students, lecturers and, last but not least, all those seeking a deeper understanding of the experimental basics of physics.

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Editorial Review

Review
“The third volume of the course deals with classical electromagnetic phenomena. … Alessandro Bettini has fulfilled the ambitious goal of writing a treatise that covers all of classical physics with a depth suitable for honor undergraduate courses. … Bettini’s books not only teach but inspire, and they will appeal to students and professors alike who feel that physics is truly rich of great ideas that deserve to be studied with devotion and love.” (Giuseppe La Rocca, Il Nuovo Saggiatore, April, 2017)

From the Back Cover

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About the Author
Alessandro Bettini is Emeritus Professor of Physics at the University of Padua, Italy, where he has taught experimental, general, and particle physics for 40 years. He is current Vice-president of the Italian Physical Society and his past posts also include Director of the INFN National Gran Sasso Laboratory, Vice-president of the OECD Global Science Forum, and Director of the Canfranc Underground Laboratory in Spain. Most recently, Professor Bettini’s scientific interests have focused on neutrino physics beyond the standard model and astroparticle phenomena. He is a member of the GERDA experiment, searching for neutrino-less double beta decay. Professor Bettini is the author of approximately 200 articles in international scientific journals as well as several books, including *Introduction to Elementary Particle Physics* (Cambridge University Press, 2008, 2nd edn).

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