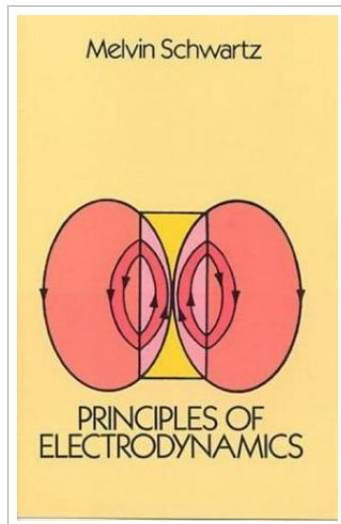




Principles of Electrodynamics

By Melvin M. Schwartz

Dover Publications Inc., United States, 1988. Paperback. Book Condition: New. New edition. 212 x 136 mm. Language: English . Brand New Book. Unlike most textbooks on electromagnetic theory, which treat electricity, magnetism, Coulomb's law and Faraday's law as almost independent subjects within the framework of the theory, this well-written text takes a relativistic point of view in which electric and magnetic fields are really different aspects of the same physical quantity. Suitable for advanced undergraduates and graduate students, this volume offers a superb exposition of the essential unity of electromagnetism in its natural, relativistic framework while demonstrating the powerful constraint of relativistic invariance. It will be seen that all electromagnetism follows from electrostatics and from the requirement for the simplest laws allowable under the relativistic constraint. By means of these insights, the author hopes to encourage students to think about theories as yet undeveloped and to see this model as useful in other areas of physics. After an introductory chapter establishing the mathematical background of the subject and a survey of some new mathematical ideas, the author reviews the principles of electrostatics. He then introduces Einstein's special theory of relativity and applies it throughout the rest of...



READ ONLINE
[6.94 MB]

Reviews

I just began looking at this pdf. We have read through and that i am confident that i will gonna study once more once more down the road. Your lifestyle span will likely be change the instant you complete looking at this ebook.

-- Eli Rau

A brand new eBook with a new standpoint. I have got read through and i also am confident that i will gonna read again once again down the road. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- Miss Shannon Hilll V