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Fundamentals of Electrodynamics (Paperback)

By Dr Kaiser S Kunz

Createspace, United States, 2011. Paperback. Book Condition: New. 226 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Fundamentals of Electrodynamics is primarily a textbook for graduate students in physics. It is also a valuable at the senior level and as a profession reference book. It will be especially welcome to graduate students planning to do their doctoral research in quantum field theory or elementary particle physics. Fundamentals of Electrodynamics is a textbook for a one or two semester graduate or senior level course in electrodynamics or electromagnetic theory. It seeks to unify classical electrodynamics by using hamilton s principles and the symmetry properties of space and time as basic assumptions. For this reason special relativity is introduced much earlier than in most other texts. With this approach one is able to reduce the number of assumptions to a relatively fe that support the entire subject; in particular, from such basic assumptions, both the relativistic equations of motion for particles and Maxwell s equations for the electrodynamic field are derived. The text is broad in scope and covers, in addition to basic theory, applications to radiation theory, self-force of an electron, natural breadth of spectral lines,...



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