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# Foundations of Electromagnetic Theory

*By John R. Reitz, Frederick J. Milford*



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Although Maxwell's equations were formulated more than seventy years ago, the subject of electricity and magnetism has not remained static. The progress of the 1930's on the microscopic constitution of matter, and the growth of solid-state physics after World War II, have led to a better understanding of electric and magnetic fields inside matter. A full understanding of the electric and magnetic fields inside matter can be obtained only after the atomic nature of matter is appreciated. Hence we have used elementary atomic concepts freely in the development of macroscopic theory. The Second Edition is to introduce two new areas which we felt should be included to meet our objectives for a text at the intermediate level. These are an introduction to the special theory of relativity, particularly as it affects electromagnetic phenomena, and a brief introduction to the electrodynamics of superconductivity.



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