



Maxwell's Equations And The Principles Of Electromagnetism (Physics (Infinity Science Press))

Richard Fitzpatrick

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Designed for upper division electromagnetism courses or as a reference for electrical engineers and scientists, this book introduces Maxwell's equations and electromagnetic waves as soon as possible (i.e., in the first third of the book), and then goes on to discuss electrostatics, magnetostatics, induction, etc., in the light of those equations. The book also provides a thorough discussion of vector field theory which emphasizes the rotational invariance of the dot and cross products, together with div, grad, and curl, and thus gives a clear physical motivation for the use of those constructs to describe electric and magnetic fields. Unlike many competing books, Maxwell's Equations & the Principles of Electromagnetism covers topics such as advanced potentials, retarded fields, forces on dielectric liquids, antenna theory, and Faraday rotations.

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