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On this basis the extended form of Maxwell's equations can be written as  $\nabla(\mathbf{A}, i/c) = \mu_0 \mathbf{j}$  and  $\nabla(\mathbf{C}, ic) = \mu_0 \mathbf{J}$  (1) Here,  $\rho$  denotes charge density and  $\mathbf{j}$  is the corresponding "space charge current density"

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in vacuo where  $c \sim 2 = c$ . This extended form has a connection with the Dirac theory of

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Space charge is a concept in which excess electric charge is treated as a continuum of charge distributed over a region of space rather than distinct point-like charges. This model typically applies when charge carriers have been emitted from some region of a solid—the cloud of emitted carriers can form a space charge region if they are sufficiently spread out, or the charged atoms or molecules left behind in the solid can form a space charge region. Space charge only occurs in dielectric ...

Space charge - Wikipedia

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These approaches, which predict new features of the electromagnetic field, such as the existence of both longitudinal and transverse solutions, the existence of space-charge current in vacuo, and steady electromagnetic equilibria, have possible applications to charge and neutral leptons and new photon physics. The present theory can also clear up some unsolved problems, such as the total reflection of light at the interface between a vacuum and a dissipative medium, and the appearance of an ...

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