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[TextBook Extended Electromagnetic Theory Space Charge In ...](#)

[Extended Electromagnetic Theory, Space Charge In Vacuo And The Rest Mass Of Photon](#). [Extended Electromagnetic Theory, Space Charge In Vacuo And The Rest Mass Of Photon](#) (World Scientific Series In Contemporary Chemical Physics series) by Bo Lehnert. This book presents extended forms of the Maxwell equations as well as electromagnetic fields, based on a non-zero divergence of the electric field and a non-zero electric conductivity in vacuo.

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[Extended Electromagnetic Theory, Angular Momentum and the B\(3\)Field](#). Bo Lehnert Royal Institute of Technology Stockholm, Sweden Sisir Roy Indian Statistical Institute Calcutta, India. An extended electromagnetic theory with space charge in vacuo has been applied to axisymmet- ric wave modes. The solutions predict that the photon should have a magnetic field component in the direction of propagation, a small magnetic moment, no net electric charge, a small but non- zero rest mass and the ...

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On this basis the extended form of Maxwell ' s equations can be written as $\nabla \cdot (\mathbf{A}, i / c) = - \mu_0 (\sim j, ic \quad) = - \mu_0 \quad (C, ic \sim) = - \mu_0 J \sim$ (1) Here, \quad denotes charge density and $\sim j$ is the corresponding " space charge current density " 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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Steady axisymmetric equilibria of an earlier developed extended electromagnetic theory are considered, as based on a nonzero electric field divergence in the vacuum state and Lorentz invariance.

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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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