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Topological Foundations of Electromagnetism (195 Pages)

List of AIAS Papers, and Some Others of Interest. It is shown that the Lehnert field equations in vacuum, with concomitant space charge and current, can be derived straightforwardly from standard gauge theory applied in vacuum, using the concept of covariant derivative and Feynman's universal influence.

Maxwell's electromagnetism extended to smaller scales ...

An extended Lorentz invariant electromagnetic theory based on a nonzero electric charge density and electric field divergence in the vacuum state has earlier been described and developed in a set of investigations [3–7].

Amazon.com: Customer reviews: Extended Electromagnetic ...

In 1865, James Clerk Maxwell published 'A Dynamical Theory of the Electromagnetic Field,' where he suggests that the electric and magnetic field travels through space as waves moving at the speed of light. He proposed that light is an undulation in the same medium that is the cause of electric and magnetic phenomena.

Extended Electromagnetic Theory, Space Charge In Vacuo And ...

Extended electromagnetic theory : space-charge in vacuo and the rest mass of the photon. [B Lehnert; Sisir Roy] -- 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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An Extended Electromagnetic Theory - VIF

The nonzero electric field divergence, with an associated “space?charge current density,” introduces an extra degree of freedom that leads to new possible states of the electromagnetic field. As a first step, the treatment in this chapter is limited to electromagnetic field theory in orthogonal coordinate systems.

Extended Electromagnetic Theory, Space Charge In Vacuo and ...

An extended electromagnetic theory has earlier been developed, as being based on the hypothesis of a nonzero electric field divergence in vacuo and the requirement of Lorentz invariance.

The Tom Bearden Website

Extended Electromagnetic Theory, Space Charge In Vacuo and the Rest Mass of Photon World Scientific In Contemporary Chemical Physics 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.

Extended Electromagnetic Theory | World Scientific Series ...

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 angular momentum of a boson.

Optical Effects of an Extended Electromagnetic Theory ...

Abstract. An extended form of Maxwell’s equations is based on a nonzero divergence of the electric field in vacuo, in combination with Lorentz invariance. In addition to the displacement current this form includes a “space-charge current”, thereby predicting new features to exist such as steady electromagnetic equilibria and additional types of waves.

Extended electromagnetic theory : space-charge in vacuo ...

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 ...

On the Purely Longitudinal Space Charge Wave of an ...

Extended formulations of electromagnetic theory in vacuo are presented, as being based on a nonzero electric ?eld di v ergence and a nonzero electric conductivity . These two ap-

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Vol. 16 Extended Electromagnetic Theory: Space Charge in Vacuo and the Rest Mass of the Photon by S. Roy and B. Lehnert Vol. 17 Optical Spectroscopies of Electronic Absorption by J.-R. Lalanne, F. Carmona and L. Servant Vol. 18 Classical and Quantum Electrodynamics and the B(3) Field by M. W. Evans and L. B. Crowell

Extended Electromagnetic Theory, Angular Momentum and the ...

electric charge density, and an associated electric field divergence. A preserved Lorentz invariance then leads to an additional space-charge current density which appears along with the conventional displacement current. In the resulting extended field theory Maxwell's equations then become a special case.

Electromagnetic Theory with Space-Charges in Vacuo ...

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$\vec{j} = \mu_0 \vec{C} = \mu_0 \vec{C} + \vec{j}$ (1) Here, ρ denotes charge density and \vec{j} is the corresponding "space charge current density" in vacuo where $C^2 = c$. This extended form has a connection with the Dirac theory of the electron [10, 11]. It can be compared to the theories by Dirac and by de Broglie, Vigier and Evans.

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