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Extended Electromagnetic Theory Space Charge

Extended Electromagnetic Theory, Space Charge in Vacuo and the Rest Mass of Photon (World Scientific Contemporary Chemical Physics) by Bo Lehnert (Author), Sisir Roy (Author) 5.0 out of 5 stars 1 rating. ISBN-13: 978-9810233952. ISBN-10: 9810233957.

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

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.

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

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 ...

Extended Electromagnetic Theory | World Scientific Series ...

On this basis the extended form of Maxwell's equations can be written as $\nabla \cdot (\epsilon_0 \mathbf{E}) = \rho_{\text{ext}} + \rho_{\text{sc}}$ (1) Here, ρ_{ext} denotes charge density and \mathbf{j}_{sc} is the corresponding "space charge current density" in vacuo where $c_{\text{sc}} = c$. This extended form has a connection with the Dirac theory of

An Extended Electromagnetic Theory

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 axisymmetric wave

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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 ...

Extended Electromagnetic Theory, Angular Momentum and the ...

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Extended Electromagnetic Theory Space Charge In Vacuo And ...

Progress in Electromagnetic Research Symposium 2004, Pisa, Italy, March 28 - 31 812 Present theory: • In a steady state the curl of the magnetic field is generated by the space-charge current density. • There is then also a steady momentum balance, in the form of an "electromagnetic confinement". 3.2The Point-Charge-Like State of the Electron

Extended Electromagnetic Theory: New Solutions of Old Problems

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.

Amazon.it: Extended Electromagnetic Theory: Space-Charge ...

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

ALBERT EINSTEIN'S theories explain how magnetic and electromagnetic fields induce curvature in space-time. Electric charges and magnets do indeed "distort space," but this happens on a couple of...

Do electric charges and magnets distort space, in the way ...

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.

An Extended Electromagnetic Theory - ResearchGate

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.

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

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

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.

Electromagnetic Theory with Space-Charges in Vacuo ...

The question of how batteries (galvanic cells) generate an emf occupied scientists for most of the 19th century. The "seat of the electromotive force" was eventually determined in 1889 by Walther Nernst to be primarily at the interfaces between the electrodes and the electrolyte. Atoms in molecules or solids are held together by chemical bonding, which stabilizes the molecule or solid (i.e ...

Electromotive force - Wikipedia

Lehnert, B. and S. Roy, Extended Electromagnetic Theory: Space-Charge in Vacuo and the Rest Mass of the Photon, World Scientific, New Jersey, 1999. Extended forms of Maxwell's equations as well as EM fields, based on a nonzero divergence of the electric field and a nonzero electric conductivity in vacuo.

The Tom Bearden Website

In addition to the displacement current by Maxwell, electric space charges and related current densities can therefore arise in the vacuum. This feature provides the basis for a number of extended electromagnetic theories. In a four-dimensional form these can here be represented by the Proca-type field equation $\nabla \cdot \mathbf{A} = \mu \mathbf{J}$

A REVISED ELECTROMAGNETIC THEORY WITH FUNDAMENTAL APPLICATIONS

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.