

Arthur D. Yaghjian

Relativistic Dynamics of a Charged Sphere

Updating the Lorentz–Abraham Model

Third Edition

 Springer

Relativistic Dynamics Of A Charged Sphere

Stephen Lyle



Relativistic Dynamics Of A Charged Sphere:

Relativistic Dynamics of a Charged Sphere Arthur Yaghjian, 2010-10-19 This is a remarkable book Arthur Yaghjian is by training and profession an electrical engineer but he has a deep interest in fundamental questions usually reserved for physicists Working largely in isolation he has studied the relevant papers of an enormous literature accumulated over a century The result is a fresh and novel approach to old problems and to their solution Physicists since Lorentz have looked at the problem of the equations of motion of a charged object primarily as a problem for the description of a fundamental particle typically an electron Yaghjian considers a macroscopic object a spherical insulator with a surface charge was therefore not tempted to take the point limit and he thus avoided the pitfalls that have misguided research in this field since Dirac's famous paper of 1938 Perhaps the author's greatest achievement was the discovery that one does not need to invoke quantum mechanics and the correspondence principle in order to exclude the unphysical solutions runaway and pre acceleration solutions Rather as he discovered the derivation of the classical equations of motion from the Maxwell Lorentz equations is invalid when the time rate of change of the dynamical variables too large even in the relativistic case Therefore solutions that show such behavior are inconsistent consequences The classical theory thus shown to be physically consistent by itself It embarrassing to say the least that this observation had not been made before

Relativistic Dynamics of a Charged Sphere Arthur D. Yaghjian, 2022 This book takes a fresh systematic approach to determining the equation of motion for the classical model of the electron introduced by Lorentz 130 years ago The original derivations of Lorentz Abraham Poincar and Schott are modified and generalized for the charged insulator model of the electron to obtain an equation of motion consistent with causal solutions to the Maxwell Lorentz equations and the equations of special relativity The solutions to the resulting equation of motion are free of pre acceleration and pre deceleration The generalized method is applied to obtain the causal solution to the equation of motion of a charge accelerating in a uniform electric field for a finite time interval Alternative derivations of the Landau Lifshitz approximation are given as well as necessary and sufficient conditions for the Landau Lifshitz approximation to be an accurate solution to the exact Lorentz Abraham Dirac equation of motion Binding forces and a total stress momentum energy tensor are derived for the charged insulator model Appendices provide simplified derivations of the self force and power at arbitrary velocity In this third edition some of the history has been made more accurate and some of the derivations have been simplified and clarified A detailed three vector exact solution to the Landau Lifshitz approximate equation of motion is given for the problem of an electron traveling in a counterpropagating plane wave laser beam pulse Semi classical analyses are used to derive the conditions that determine the significance of quantum effects not included in the classical equation of motion The book is a valuable resource for students and researchers in physics engineering and the history of science

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noncausal pre acceleration so that it applies to removing any pre deceleration as well It also introduces a robust power series solution to the equation of motion that produces an extremely accurate solution to problems such as the motion of electrons in uniform magnetic fields *Dynamics of Charged Particles and their Radiation Field* Herbert Spohn,2023-07-27 An introduction to classical electron theory and non relativistic quantum electrodynamics reissued as an Open Access publication *Classical Charged Particles (Third Edition)* Fritz Rohrlich,2007-01-30 Originally written in 1964 this famous text is a study of the classical theory of charged particles Many applications treat electrons as point particles At the same time there is a widespread belief that the theory of point particles is beset with various difficulties such as an infinite electrostatic self energy a rather doubtful equation of motion which admits physically meaningless solutions violation of causality and others The classical theory of charged particles has been largely ignored and has been left in an incomplete state since the discovery of quantum mechanics Despite the great efforts of men such as Lorentz Abraham Poincar and Dirac it is usually regarded as a lost cause But thanks to progress made just a few years ago the author is able to resolve the various problems and to complete this unfinished theory successfully *Quantum Theory of Near-Field Electrodynamics* Ole Keller,2012-02-02 Quantum Theory of Near field Electrodynamics gives a self contained account of the fundamental theory of field matter interaction on a subwavelength scale The quantum physical behavior of matter atoms and mesoscopic media in both classical and quantum fields is treated The role of local field effects and nonlocal electrodynamics and the tight links to the theory of spatial photon localization are emphasized The book may serve as a reference work in the field and is of general interest for physicists working in quantum optics mesoscopic electrodynamics and physical optics The macroscopic and microscopic classical theories form a good starting point for the quantum approach and these theories are presented in a manner appropriate for graduate students entering near field optics **Uniformly Accelerating Charged Particles** Stephen Lyle,2008-07-22 This book examines the problems with the LD equation in flat spacetime and details its extension to curved spacetime It compares different equivalence principles as well as vindicates some **Interface Effects in Elastic Wave Scattering** Samuel D. Bogan,Mark K. Hinders,2008-10-09 The authors study dynamical effects of incident compressional and distortional elastic waves on a layer of planar cylindrical or spherical geometry especially focusing on the stress fields surrounding the layer These results are derived from the exact solutions for elastic wave scattering from such interfaces developed in the first part of the book Comparisons of numerical solutions of special problems with the analytical solutions are given and it is shown how the latter help to simplify the numerical treatment The material presented in this monograph will help in developing composite materials with improved chemical and physical properties and in non destructive testing of such materials Engineers physicists and workers in applied mathematics will welcome this well written text It may also be used for additional reading in a course on elasto mechanics *Quantum Gravity, Quantum Cosmology and Lorentzian Geometries* Giampiero Esposito,2013-11-11 This book is aimed at theoretical and mathematical physicists and

mathematicians interested in modern gravitational physics I have thus tried to use language familiar to readers working on classical and quantum gravity paying attention both to difficult calculations and to existence theorems and discussing in detail the current literature The first aim of the book is to describe recent work on the problem of boundary conditions in one loop quantum cosmology The motivation of this research was to understand whether supersymmetric theories are one loop finite in the presence of boundaries with application to the boundary value problems occurring in quantum cosmology Indeed higher loop calculations in the absence of boundaries are already available in the literature showing that supergravity is not finite I believe however that one loop calculations in the presence of boundaries are more fundamental in that they provide a more direct check of the inconsistency of Supersymmetric quantum cosmology from the perturbative point of view It therefore appears that higher order calculations are not strictly needed if the one loop test already yields negative results Even though the question is not yet settled this research has led to many interesting new applications of areas of theoretical and mathematical physics such as twistor theory in flat space self adjointness theory the generalized Liemann zeta function and the theory of boundary counterterms in super gravity Oscillator Representation in Quantum Physics M. Dineykhani, G.V. Efimov, G. Ganbold, S.N. Nedelko, 2008-12-16 The investigation of most problems of quantum physics leads to the solution of the Schrodinger equation with an appropriate interaction Hamiltonian or potential However the exact solutions are known for rather a restricted set of potentials so that the standard eternal problem that faces us is to find the best effective approximation to the exact solution of the Schrodinger equation under consideration In the most general form this problem can be formulated as follows Let a total Hamiltonian H describing a relativistic quantum field theory or a nonrelativistic quantum mechanics system be given Our problem is to solve the Schrodinger equation $H\psi = E\psi$ to find the energy spectrum E_n and the proper wave functions ψ_n including the ground state or vacuum ψ_0 The main idea of any approximation technique is to find a decomposition in such a way that H_0 describes our physical system in the closest to H manner and the Schrodinger equation $H_0\psi_0 = E_0\psi_0$ can be solved exactly The interaction Hamiltonian H_I is supposed to give small corrections to the zero approximation which can be calculated In this book we shall consider the problem of a strong coupling regime in quantum field theory calculations of path or functional integrals over the Gaussian measure and spectral problems in quantum mechanics Let us consider these problems briefly

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