Arthur D. Yaghjian

Relativistic Dynamics of a Charged Sphere

Updating the Lorentz–Abraham Model

Third Edition

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Relativistic Dynamics Of A Charged Sphere

Israel Michael Sigal,Catherine Sulem

Relativistic Dynamics Of A Charged Sphere:

  Relativistic Dynamics of a Charged Sphere Arthur D. Yaghjian,1992 This is a remarkable book A fresh and novel approach to old problems and to their solution Fritz Rohrlich Emeritus Professor of Physics Syracuse University This book takes a fresh systematic approach to determining the equation of motion for the classical model of the electron introduced by Lorentz more than 100 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 runaway behavior Binding forces and a total stress momentum energy tensor are derived for the charged insulator model General expressions for synchrotron radiation emerge in a form convenient for determining the motion of the electron Appendices provide simplified derivations of the self force and power at arbitrary velocity In this Second Edition the method used for eliminating the noncausal pre acceleration from the equation of motion has been generalized to eliminate pre deceleration as well 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 to the Lorentz Abraham Dirac equation of motion are also given along with Spohn s elegant solution of this approximate equation for a charge moving in a uniform magnetic field The book is a valuable resource for students and researchers in physics engineering and the history of science   **Relativistic Dynamics of a Charged Sphere** Arthur Yaghjian,2013-04-03 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 mac scopic 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 pr ciple in order to exclude the unphysical solutions runaway and pre acc eration 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 inc sistent consequences The classical theory thus shown to be physically consistent by itself It embarrassing to say the least that this obs vation had not been made before   **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   Introduction to Photon Communication Cherif Bendjaballah,2008-09-11 In recent years progress in the generation of squeezed states of light mainly characterized by a reduced noise property has stimulated important work in relation to their potential use to improve the sensitivity of optical communication systems These notes are devoted to the detection and information processing of optical signals at very low levels of power A survey of recent developments from the quantum and classical points of view is presented Ultimate limits of performance under the criteria of detection and information are established Some of the results are detailed and may be utilized for the design of practical systems of communication using present technology The book addresses physicists and engineers interested in present and future developments in optical communications   **Operational Quantum Physics** Paul Busch,Marian Grabowski,Pekka J. Lahti,2009-01-29 Operational Quantum Physics offers a systematic presentation of quantum mechanics which makes exhaustive use of the full probabilistic structure of this theory Accordingly the notion of an observable as a positive operator valued POV measure is explained in great detail and the ensuing quantum measurement theory is developed and applied both to a resolution of long standing conceptual and interpretational puzzles in the foundations of quantum mechanics and to an analysis of various recent fundamental experiments The book or different parts of it may be of interest to advanced students or researchers in quantum physics to philosophers of physics and to mathematicians working in operator valued measures   **Quantum Inversion Theory and Applications** H.V.v. Geramb,2018-05-29 This volume covers aspects of Schr dinger equation inversion for the purposeof determining interaction potentials in particle nuclear and atomic physics from experimental data It includes reviews and reports on the latest developments in mathematics supersymmetric quantum mechanics inversion for fixed l nucleon nucleon potentials inversion of fixed E optical potentials and their generalizations Also included are some topics on nonlinear differential equations relating to theSchr dinger or other equations of particle nuclear atomic and molecular physics which can be solved by inverse scattering transformations The material collected in this volume gives a clear picture of the status ofresearch in this rapidly growing field The book addresses students and young scientists as well as researchers in theoretical physics and functional analysis   **Algebraic Renormalization** Olivier Piguet,Silvio P. Sorella,2008-09-11 The idea of this book originated from

two series of lectures given by us at the Physics Department of the Catholic University of Petr6polis in Brazil Its aim is to present an introduction to the algebraic method in the perturbative renormalization of relativistic quantum field theory Although this approach goes back to the pioneering works of Symanzik in the early 1970s and was systematized by Becchi Rouet and Stora as early as 1972 1974 its full value has not yet been widely appreciated by the practitioners of quantum field theory Becchi Rouet and Stora have however shown it to be a powerful tool for proving the renormalizability of theories with broken symmetries and of gauge theories We have thus found it pertinent to collect in a self contained manner the available information on algebraic renormalization which was previously scattered in many original papers and in a few older review articles Although we have taken care to adapt the level of this book to that of a po graduate Ph D course more advanced researchers will also certainly find it useful The deeper knowledge of renormalization theory we hope readers will acquire should help them to face the difficult problems of quantum field theory It should also be very helpful to the more phenomenology oriented readers who want to famili ize themselves with the formalism of renormalization theory a necessity in view of the sophisticated perturbative calculations currently being done in particular in the standard model of particle interactions **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 developped 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 **Oscillator Representation in Quantum Physics** M. Dineykhan,G.V. Efimov,G. Ganbold,S.N. Nedelko,2008-12-16 The investigation ofmost 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 Hlft Enlftn n i e to find the energy spectrum En and the proper wave functions lft n including the ground state or vacuum lft 10 The main idea of any ap o proximation technique is to find a decomposition in such a way that Ha describes our physical system in the closest to H manner and the Schrodinger equation HolJt O E O lJt O n n n can be solved exactly The interaction Hamiltonian HI 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 ofpath or functional integrals over the Gaussian measure and spectral problems in quantum mechanics Let us con sider these problems briefly **Quantum Gravity, Quantum Cosmology and Lorentzian Geometries** Giampiero Esposito,2009-02-13 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 under stand whether supersymmetric theories are one loop finite in the presence of boundaries with application to the boundary value problemsoccurring in quantum cosmology Indeed higher loop calculations in the absence of boundaries are already available in the litera ture 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 Riemann zeta function and the theory of boundary counterterms in super gravity I have also compared in detail my work with results by other authors explaining whenever possible the origin of different results the limits of my work and the unsolved problems **Multicomponent Transport Algorithms** Alexandre Ern,Vincent Giovangigli,2008-10-10 With the advent of sophisticated computer technology and the development of efficient computational algorithms numerical modeling of complex multicomponent laminar reacting flows has emerged as an increasingly popular and firmly established area of scientific research Progress in this area aims at obtaining better resolved and more accurate solutions of specific technological problems in less computer time Therefore it strongly relies upon the ability of evaluating fundamental parameters appearing in the physical models Transport properties constitute a typical example of the above characterization Evaluating transport coefficients of dilute polyatomic gas mixtures is often critical in many engineering applications including chemical reactors hypersonic flows comb tion phenomena and chemical vapor deposition Using the kinetic theory of dilute polyatomic gas mixtures as a starting point this book offers a systematic development of a mathematical and numerical theory for the evaluation of transport properties in dilute polyatomic gas mixtures The present investigation is not specifically about the kinetic theory of gases for which there are plenty of excellent and thoroughly do mented textbooks it is rather geared toward the development of new efficient and general algorithms with which to evaluate transport properties of dilute polyatomic gas mixtures at a reasonable computational cost   The Atomic World Spooky? It Ain't Necessarily So! Theo van Holten,2016-12-09 The present book

takes the discovery that quantum like behaviour is not solely reserved to atomic particles one step further If electrons are modelled as vibrating droplets instead of the usually assumed point objects and if the classical laws of nature are applied then exactly the same behaviour as in quantum theory is found quantitatively correct The world of atoms is strange and quantum mechanics the theory of this world is almost magic Or is it Tiny droplets of oil bouncing round on a fluid surface can also mimic the world of quantum mechanics For the layman for whom the main part of this book is written this is good news If the everyday laws of nature can conspire to show up quantum like phenomena there is hope to form mental pictures how the atomic world works The book is almost formula free and explains everything by using many sketches and diagrams The mathematical derivations underlying the main text are kept separate in a peer reviewed appendix The author a retired professor of Flight Mechanics and Propulsion at the Delft University of Technology chose to publish his findings in this mixed popular and scientific form because he found that interested laymen more often than professional physicists feel the need to form visualisations of quantum phenomena   Electromagnetic and Optical Pulse Propagation Kurt E. Oughstun,2019-07-17 In two volumes this book presents a detailed systematic treatment of electromagnetics with application to the propagation of transient electromagnetic fields including ultrawideband signals and ultrashort pulses in dispersive absorptive media This expanded updated and reorganized new edition presents a rigorous development of both time and frequency domain electromagnetics from classical theory to current topics in applied research on temporally pulsed wave fields in dielectric conducting and semiconducting materials With meaningful exercises throughout it is suitable as a graduate textbook in electromagnetic wave theory and will be of use to researchers as a resource on electromagnetic radiation and wave propagation theory with applications to radar imaging communications and safety issues Volume 1 develops the fundamental Maxwell Lorentz theory of microscopic electromagnetics and its relationship to macroscopic electromagnetics in complex media with particularemphasis given to temporally dispersive materials supplemented with several appendices on mathematical methods The second edition includes new material on conjugate electromagnetic fields time reversal invariance the four potential and Lorentz invariance anisotropic and spatially dispersive media double negative metamaterials and generalized Fresnel reflection and refraction coefficients for complex media The relationship between both the mathematical and physical interpretation of classical electromagnetic field theory with the special theory of relativity is emphasized throughout the volume Volume 2 covers temporal pulse dynamics in dispersive attenuative media with asymptotic analysis at the forefront   **Field Theoretical Tools for Polymer and Particle Physics** Hildegard Meyer-Ortmanns,Andreas Klümper,1998-03-18 The book is written for advanced graduate students The topics have been selected to present methods and models that have applications in both particle physics and polymer physics The lectures may serve as a guide through more recent research activities and illustrate the applicability of joint methods in different contexts The book deals with analytic tools e g random walk models polymer expansion numerical tools e g Langevin dynamics and

common models the three dimensional Gross Neveu Model **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 **Beyond Peaceful Coexistence; The Emergence Of Space, Time And Quantum** Ignazio Licata,2016-03-30 It may be that a real synthesis of quantum and relativity theories requires not just technical developments but radical conceptual renewal J S BellBeyond Peaceful Coexistence The Emergence of Space Time and Quantum brings together leading academics in mathematics and physics to address going beyond the peaceful coexistence of space time descriptions local and continuous ones and quantum events discrete and non commutative ones Formidable challenges waiting beyond the Standard Model require a new semantic consistency within the theories in order to build new ways of understanding working and relating to them The original A Shimony meaning of the peaceful coexistence the collapse postulate and non locality appear to be just the tip of the iceberg in relation to more serious fundamental issues across physics as a whole Chapters in this book present perspectives on emergent discrete geometrodynamic and topological approaches as well as a new interpretative spectrum of quantum theories after Copenhagen discrete time theories time less approaches and super fluid pictures of space time As well as stimulating further research among established theoretical physicists the book can also be used in courses on the philosophy and mathematics of theoretical physics **The Physical Basis of The Direction of Time** H. Dieter Zeh,2013-03-20 The fourth edition contains again various revisions and updates throughout the whole book There are many new comments formulations and arguments several new references and three minor error corrections regarding page 22 112 and 146 of the third edition This time I am grateful to David Atkinson for a very useful discussion of radiation damping Sect 2 3 to Larry Schulman for comments on the problem of simultaneous arrows of time Sect 3 1 2 and to Paul Sheldon for a discussion of the compatibility of closed time like curves with quantum theory Chap 1 The most efficient help came from John Free who carefully edited the whole fourth edition not only for matters of English language Heidelberg April 2001 H D Zeh Preface to the Third Edition The third 1999 edition of the Direction of Time offered far more revisions and additions than the second one in 1992 During the seven years in between several fields of research related to the arrow of time had shown remarkable progress For example decoherence proved to be the most ubiquitous man ifestation of the quantum arrow while articles on various interpretations of quantum theory many of them with inbuilt time asymmetric dynamical aspects can and do now regularly appear in reputed physics

journals There fore most parts of Chap 4 were completely rewritten and some new sections added while the second part of Chap **Nonlinear Dynamics and Renormalization Group** Israel Michael Sigal,Catherine Sulem,2001 This book contains the proceedings from the workshop Nonlinear Dynamics and Renormalization Group held at the Centre de recherches math matiques CRM in Montr al Canada as part of the year long program devoted to mathematical physics In the book active researchers in the fields of nonlinear partial differential equations and renormalization group contribute recent results on topics such as Ginzburg Landau equations and blow up of solutions of the nonlinear Schroedinger equations quantum resonances and renormalization group analysis in constructive quantum field theory This volume offers the latest research in the rapidly developing fields of nonlinear equations and renormalization group **Progress in Understanding of Polymer Crystallization** Günter Reiter,Gert R. Strobl,2007-02-05 In the context of polymer crystallization there are several still open and often controversially debated questions The present volume addresses issues such as novel general views and concepts It presents new ideas in a connected and accessible way The intention is thus not only to provide a summary of the present state of the art to all active works but to provide an entry point to newcomer and graduate students entering the field

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