

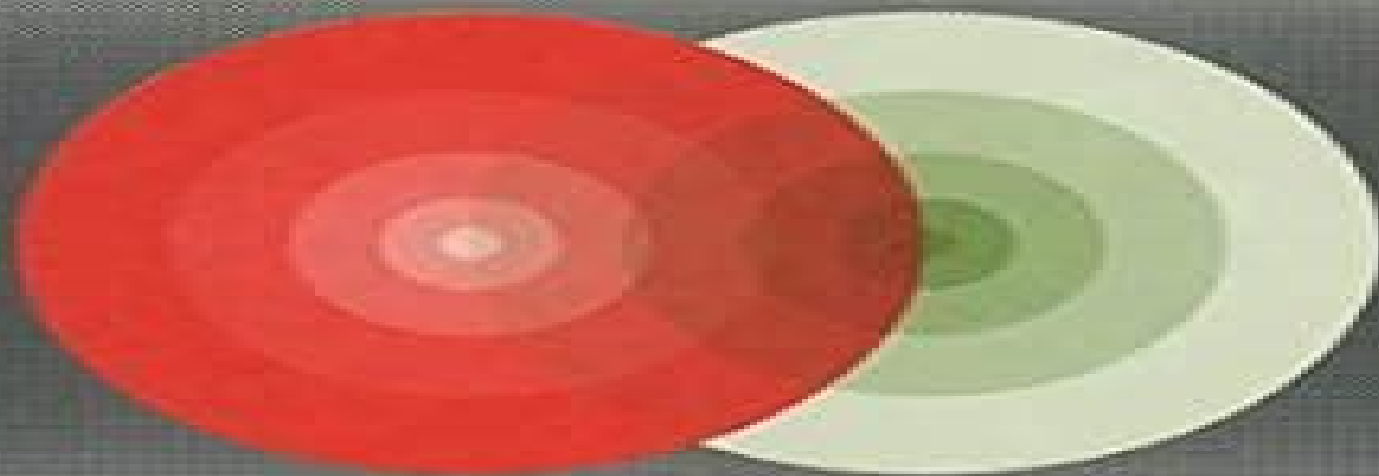
# **The Enigmatic Photon**

## **Volume 5: O(3) Electrodynamics**

by

**Myron W. Evans**

**Kluwer Academic Publishers**



**Fundamental Theories of Physics**

# Enigmatic Photon Vol 2 Non Abelian Electrodynamics

**V. Kulish**



## **Enigmatic Photon Vol 2 Non Abelian Electrodynamics:**

*The Enigmatic Photon* M.W. Evans, Jean-Pierre Vigiér, 1995-01-31 This book is a sequel to *The Enigmatic Photon Volume 1* The Field IX 3 SUP EM Kluwer Academic Publishers 1994 which presented the first systematic development of the fundamental magnetizing field of electromagnetic radiation the field  $I_3$  Its 12 chapters collectively describe the properties of  $I_3$  in a vacuum and in the interaction of light with matter The present volume deals with the development of the theory of the Evans Vigiér field  $I_3$  It opens with the derivation of the novel field  $I_3$  from the Dirac equation of relativistic quantum field theory The existence of  $I_3$  in the vacuum means that the gauge group of electromagnetism becomes  $O(3)$  the group of rotations This is non Abelian and so requires a self consistent development of the vacuum Maxwell equations themselves The role of  $I_3$  is discussed in unified field theory and quantum electrodynamics The classical vacuum field  $I_3$  is a novel fundamentally important feature of electrodynamics which indicates that the particulate photon carries mass thus settling a longstanding debate in favour of protagonists of photon mass For researchers and graduate students interested in the theory of electromagnetic radiation

**Theory of the Electron** J. Keller, 2005-12-19 In the first century after its discovery the electron has come to be a fundamental element in the analysis of physical aspects of nature This book is devoted to the construction of a deductive theory of the electron starting from first principles and using a simple mathematical tool geometric analysis Its purpose is to present a comprehensive theory of the electron to the point where a connection can be made with the main approaches to the study of the electron in physics The introduction describes the methodology Chapter 2 presents the concept of space time action relativity theory and in chapter 3 the mathematical structures describing action are analyzed Chapters 4 5 and 6 deal with the theory of the electron in a series of aspects where the geometrical analysis is more relevant Finally in chapter 7 the form of geometrical analysis used in the book is presented to elucidate the broad range of topics which are covered and the range of mathematical structures which are implicitly or explicitly included The book is directed to two different audiences of graduate students and research scientists primarily to theoretical physicists in the field of electron physics as well as those in the more general field of quantum mechanics elementary particle physics and general relativity secondly to mathematicians in the field of geometric analysis

**Vavilov-Cherenkov and Synchrotron Radiation** G.N. Afanasiev, 2006-01-17 Annotation This monograph is intended for the students of the third year and higher for postgraduates for the professional scientists both experimentalists and theoreticians dealing with Vavilov Cherenkov and synchrotron radiations Jacket

**Cosmological Pattern of Microphysics in the Inflationary Universe** Maxim Y. Khlopov, Sergei G. Rubin, 2013-03-20 Modern cosmology is a quickly developing field of research New technical devices and tools supply the community with new experimental data measured with high accuracy The self consistent explanation of these data needs theoretical models that are based on hypothetical predictions of particle theory In their turn such predictions imply cosmology for their probe Specific studies of the cosmological consequences of particle theory linking them to their

observable signatures are actual This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations The aim of this book is to acquaint the reader with some of these ideas finding nontrivial ways to probe the physical basis of modern cosmology An extensive review of the newest ideas in modern cosmology e.g. related with the development of the M-brane theory lies beyond the scope of our book which is aimed at providing a firmly established system of probes for these ideas linking their predictions to their possible experimental test We use the framework of inflationary paradigm to reveal the phenomena that can shed light on the physical origin of the observed Universe of its matter content and large scale structure The crucial role of quantum fluctuations in creation of our Universe and in possible features reflecting cosmological impact of microphysics is discussed These features are shown to be accessible to experimental test in the near future

**Information Dynamics in Cognitive, Psychological, Social, and Anomalous Phenomena** Andrei Y. Khrennikov, 2013-06-29 In this book we develop various mathematical models of information dynamics I dynamics including the process of thinking based on methods of classical and quantum physics The main aim of our investigations is to describe mathematically the phenomenon of consciousness We would like to realize a kind of Newton Descartes program corrected by the lessons of statistical and quantum mechanics for information processes Starting from the ideas of Newton and Descartes in physics there was developed an adequate description of the dynamics of material systems We would like to develop an analogous mathematical formalism for information and in particular mental processes At the beginning of the 21st century it is clear that it would be impossible to create a deterministic model for general information processes A deterministic model has to be completed by a corresponding statistical model of information flows and in particular flows of minds It might be that such an information statistical model should have a quantum like structure

*The Universe of Fluctuations* B. G. Sidharth, 2006-03-30 The Universe of Fluctuations The Architecture of Spacetime and the Universe is a path breaking work which proposes solutions to the impasse and crisis facing fundamental physics and cosmology It describes a cosmological model based on fuzzy spacetime that has correctly predicted a dark energy driven acceleration of our expanding universe with a small cosmological constant at a time when the popular belief was quite the contrary It describes how the Universe is made up of an underpinning of Planck oscillators in a Quantum Vacuum This leads to amongst other things a characterization of gravitation as being distributional over the entire Universe thereby providing an answer to a puzzle brought to light by Weinberg years ago and since overlooked There is also a simple formula for the mass spectrum of all known elementary particles based on QCD dynamics Many other interesting ramifications and experimental tests for the future are also discussed This apart there is a brief survey of some of the existing theories The book is accessible to junior and senior researchers in High Energy Physics and Cosmology as well as the serious graduate student in Physics

**Classical and Quantum Electrodynamics and the B(3) Field** Myron Wyn Evans, L. B. Crowell, 2001 It is well known that classical electrodynamics is riddled with internal inconsistencies springing from the fact that it is a

linear Abelian theory in which the potentials are unphysical This volume offers a self consistent hypothesis which removes some of these problems as well as builds a framework on which linear and nonlinear optics are treated as a non Abelian gauge field theory based on the emergence of the fundamental magnetizing field of radiation the B 3 field Contents Interaction of Electromagnetic Radiation with One Fermion The Field Equations of Classical O 3 b Electrodynamics Origin of Electrodynamics in the General Theory of Gauge Fields Nonlinear Propagation in O 3 b Electrodynamics Solitons and Instantons Physical Phase Effects in O 3 b Electrodynamics Quantum Electrodynamics and the B 3 Field Quantum Chaos Topological Indices and Gauge Theories Field Theory of O 3 b QED and Unification with Weak and Nuclear Interactions Potential Applications of O 3 b QED Duality and Fundamental Problems Readership Graduate and undergraduates in physics electromagnetism differential geometry topology electrical electronic engineering theoretical physical chemistry chaos and dynamical systems      **Quantum Mechanics** Ajoy Ghatak,S. Lokanathan,2004-03-31 An understanding of quantum

mechanics is vital to all students of physics chemistry and electrical engineering but requires a lot of mathematical concepts the details of which are given with great clarity in this book Various concepts have been derived from first principles so it can also be used for self study The chapters on the JWKB approximation time independent perturbation theory and effects of magnetic field stand out for their clarity and easy to understand mathematics Two complete chapters on the linear harmonic oscillator provide a very detailed discussion of one of the most fundamental problems in quantum mechanics Operator algebra is used to show the ease with which one can calculate the harmonic oscillator wave functions and study the evolution of the coherent state Similarly three chapters on angular momentum give a detailed account of this important problem Perhaps the most attractive feature of the book is the excellent balance between theory and applications and the large number of applications in such diverse areas as astrophysics nuclear physics atomic and molecular spectroscopy solid state physics and quantum well structures      *Isodual Theory of Antimatter* Ruggero Maria Santilli,2006-02-28 The scope of this monograph is to show that our classical quantum and cosmological knowledge of antimatter is at its beginning with much yet to be discovered and that a commitment to antimatter by experimentalists will be invaluable to antimatter science This is also the first book presenting the isodual theory of antimatter It is aimed at scientists and researchers in theoretical physics

**The Enigmatic Photon** M.W. Evans,J.P. Vigiier,S. Roy,G. Hunter,1998-01-31 This volume establishes the fact that electrodynamics is by no means a completely understood theory by bringing together several in depth review papers from leading specialists The major portion of the volume is built around the nonlinear structure which leads to the B 3 field introduced in the previous three volumes published Audience Specialists graduate and senior undergraduate students in physics chemistry and electrical engineering      *Hierarchical Methods* V. Kulish,2006-04-11 Everybody is current in a world surrounded by computer Computers determine our professional activity and penetrate increasingly deeper into our everyday life Therein we also need increasingly refined c puter technology Sometimes we think that the next generation of c puter will

satisfy all our dreams giving us hope that most of our urgent problems will be solved very soon However the future comes and illusions dissipate This phenomenon occurs and vanishes sporadically and possibly is a fundamental law of our life Experience shows that indeed systematically remaining problems are mainly of a complex technological nature the creation of new generation of especially perfect cross-schemes elements of memory etc But let us note that amongst these problems there are always ones solved by our purely intellectual efforts alone Progress in this direction does not require the invention of any superchip or other similar elements It is important to note that the results obtained in this way very often turn out to be more significant than the fruits of relevant technological progress The hierarchical asymptotic analytical numerical methods can be regarded as results of such purely intellectual efforts Their application allows us to simplify essentially computer calculational procedures and consequently to reduce the calculational time required It is obvious that this circumstance is very attractive to any computer user

*Challenges to The Second Law of Thermodynamics* Vladislav Capek, Daniel P. Sheehan, 2006-03-30

The advance of scientific thought in ways resembles biological and geologic transformation long periods of gradual change punctuated by episodes of radical upheaval Twentieth century physics witnessed at least three major shifts relativity quantum mechanics and chaos theory as well many lesser ones Now at the start of the 21st century another shift appears imminent this one involving the second law of thermodynamics Over the last 20 years the absolute status of the second law has come under increased scrutiny more than during any other period its 180 year history Since the early 1980s roughly 50 papers representing over 20 challenges have appeared in the refereed scientific literature In July 2002 the first conference on its status was convened at the University of San Diego attended by 120 researchers from 25 countries QLSL2002 1 In 2003 the second edition of Leś and Rex's classic anthology on Maxwell demons appeared 2 further raising interest in this emerging field In 2004 the mainstream scientific journal Entropy published a special edition devoted to second law challenges 3 And in July 2004 an echo of QLSL2002 was held in Prague Czech Republic 4 Modern second law challenges began in the early 1980s with the theoretical proposals of Gordon and Denur Starting in the mid 1990s several proposals for experimentally testable challenges were advanced by Sheehan et al By the late 1990s and early 2000s a rapid succession of theoretical quantum mechanical challenges were being advanced by Capek et al

*Lorentz Group, CPT and Neutrinos* Andrew E.

Chubykalo, 2000 The topics in this volume range from mathematical aspects of the theory of the Poincaré group Clifford algebras and the CPT theorem through new theoretical physical constructions and concepts such as the physical significance of the 4-potential the interplay between quantum mechanics and gravity Majorana-like models the photon as a composite particle action at a distance and superluminal phenomena to experiments in neutrino physics The book will be of interest to graduate students and researchers working in fundamental physics and phenomenology and also to experimentalists

Complex Spaces in Finsler, Lagrange and Hamilton Geometries Gheorghe Munteanu, 2012-11-03 From a historical point of view the theory we submit to the present study has its origins in the famous dissertation of P Finsler from 1918. In a the

classical notion also conventional classification Finsler geometry has besides a number of generalizations which use the same work technique and which can be considered self geometries Lagrange and Hamilton spaces Finsler geometry had a period of incubation long enough so that few mathematicians E Cartan L Berwald S S Chern H Rund had the patience to penetrate into a universe of tensors which made them compare it to a jungle To aU of us who study nowadays Finsler geometry it is obvious that the qualitative leap was made in the 1970 s by the crystallization of the nonlinear connection notion a notion which is almost as old as Finsler space SZ4 and by work skills into its adapted frame fields The results obtained by M Matsumoto collected later in 1986 in a monograph Ma3 aroused interest not only in Japan but also in other countries such as Romania Hungary Canada and the USA where schools of Finsler geometry are founded and are presently widely recognized

**Beyond the Einstein Addition Law and its Gyroscopic Thomas Precession** Abraham A. Ungar, 2012-12-06 I cannot define coincidence in mathematics But I shall argue that coincidence can always be elevated or organized into a superstructure which performs a unification along the coincidental elements The existence of a coincidence is strong evidence for the existence of a covering theory Philip I Davis Dav81 Alluding to the Thomas gyration this book presents the Theory of gyrogroups and gyrovector spaces taking the reader to the immensity of hyperbolic geometry that lies beyond the Einstein special theory of relativity Soon after its introduction by Einstein in 1905 Ein05 special relativity theory as named by Einstein ten years later became overshadowed by the appearance of general relativity Subsequently the exposition of special relativity followed the lines laid down by Minkowski in which the role of hyperbolic geometry is not emphasized This can doubtlessly be explained by the strangeness and unfamiliarity of hyperbolic geometry Bar98 The aim of this book is to reverse the trend of neglecting the role of hyperbolic geometry in the special theory of relativity initiated by Minkowski by emphasizing the central role that hyperbolic geometry plays in the theory

**The Geometry of Hamilton and Lagrange Spaces** R. Miron, Dragos Hrimiuc, Hideo Shimada, Sorin V. Sabau, 2006-04-11 The title of this book is no surprise for people working in the field of Analytical Mechanics However the geometric concepts of Lagrange space and Hamilton space are completely new The geometry of Lagrange spaces introduced and studied in 76 96 was extensively examined in the last two decades by geometers and physicists from Canada Germany Hungary Italy Japan Romania Russia and U S A Many international conferences were devoted to debate this subject proceedings and monographs were published 10 18 112 113 A large area of applicability of this geometry is suggested by the connections to Biology Mechanics and Physics and also by its general setting as a generalization of Finsler and Riemannian geometries The concept of Hamilton space introduced in 105 101 was intensively studied in 63 66 97 and it has been successful as a geometric theory of the Hamiltonian function the fundamental entity in Mechanics and Physics The classical Legendre's duality makes possible a natural connection between Lagrange and Hamilton spaces It reveals new concepts and geometrical objects of Hamilton spaces that are dual to those which are similar in Lagrange spaces Following this duality Cartan spaces introduced and studied in 98 99 are roughly speaking the

Legendre duals of certain Finsler spaces 98 66 67 The above arguments make this monograph a continuation of 106 113 emphasizing the Hamilton geometry

**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

**Applications of the Theory of Groups in Mechanics and Physics** Petre P. Teodorescu, Nicolae-A.P. Nicorovici, 2004-04-30 The notion of group is fundamental in our days not only in mathematics but also in classical mechanics electromagnetism theory of relativity quantum mechanics theory of elementary particles etc This notion has developed during a century and this development is connected with the names of great mathematicians as E Galois A L Cauchy C F Gauss W R Hamilton C Jordan S Lie E Cartan H Weyl E Wigner and of many others In mathematics as in other sciences the simple and fertile ideas make their way with difficulty and slowly however this long history would have been of a minor interest had the notion of group remained connected only with rather restricted domains of mathematics those in which it occurred at the beginning But at present groups have invaded almost all mathematical disciplines mechanics the largest part of physics of chemistry etc We may say without exaggeration that this is the most important idea that occurred in mathematics since the invention of infinitesimal calculus indeed the notion of group expresses in a precise and operational form the vague and universal ideas of regularity and symmetry The notion of group led to a profound understanding of the character of the laws which govern natural phenomena permitting to formulate new laws correcting certain inadequate formulations and providing unitary and non contradictory formulations for the investigated phenomena

**Kinematical Theory of Spinning Particles** M. Rivas, 2006-04-11 Classical spin is described in terms of velocities and acceleration so that knowledge of advanced mathematics is not required Written in the three dimensional notation of vector calculus it can be followed by undergraduate physics students although some notions of Lagrangian dynamics and group theory are required It is intended as a general course at a postgraduate level for all purpose physicists This book presents a unified approach to classical and quantum mechanics of spinning particles with symmetry principles as the starting point A classical concept of an elementary particle is presented The variational statements to deal with spinning particles are revisited It is shown that by explicitly constructing different models symmetry principles are sufficient for the description of either classical or quantum mechanical elementary particles Several spin effects are analyzed

*Introduction to Soliton Theory: Applications to Mechanics* Ligia Munteanu, Stefania Donescu, 2004-08-11 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of

nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Jules Verne's novel Les histoires de Jean Marie Cabidoulin d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses

## Embracing the Melody of Appearance: An Emotional Symphony within **Enigmatic Photon Vol 2 Non Abelian Electrodynamics**

In some sort of consumed by displays and the ceaseless chatter of quick interaction, the melodic beauty and emotional symphony produced by the published word frequently diminish in to the background, eclipsed by the constant sound and disruptions that permeate our lives. Nevertheless, situated within the pages of **Enigmatic Photon Vol 2 Non Abelian Electrodynamics** a stunning literary value filled with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that fascinating masterpiece conducts visitors on a mental journey, skillfully unraveling the hidden tunes and profound influence resonating within each carefully constructed phrase. Within the depths with this touching examination, we shall discover the book is central harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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