

R. A. Villecco

Part 1:
Canonical Electrodynamics

$$f^\mu_\sigma f^\sigma_\nu = \lambda \delta^\mu_\nu$$



Unified Field Theory

Mathematical Treatise

Unified Field Theory Mathematical Treatise Part I Canonical Electrodynamics

**Newton C. A. da Costa, Francisco
Antonio Doria**



Unified Field Theory Mathematical Treatise Part I Canonical Electrodynamics:

Unified Field Theory: Mathematical Treatise R. A. Villecco, 2014-04 In this book all known electromagnetic laws are proven to be derivable from the solution of a single quadratic equation This governing equation it is shown generates precisely three complex fields in 4 space but can itself be generated as a law of all even dimensioned spaces in universes having meaning without need of a prior knowledge of physics Provided for the first time are electromagnetic formulas applicable in a general Riemannian space the fundamental field tensor with three complex components the energy momentum tensor and the force power tensor The Lorentz force as currently known is shown to be an approximate form of the derived Riemannian force power tensor which imbeds gravitational interactions inclusive of frame dragging terms Newly identified electro gravitational interaction force and power transfer mechanisms are provided as natural consequences of the reformulations As a byproduct of the complex field theory developed in this book the mystery of missing magnetic monopoles in nature is fully resolved Also clarified are classical duality field superposition and the origins of charge sign and chirality The approach taken to include all spatial dimensionalities leads to the justifiable conclusion that infinitely many higher dimensioned spaces likely exist with their laws of operation able to be broadly generated from the material presented

Mathematical Reviews, 1996 **Estonian Studies in the History and Philosophy of Science** Rein

Vihalemm, 2012-12-06 The development of geography also forms an interesting chapter in the history of the University of Tartu and in that of Estonian science in general On the one hand geography is a natural science in the broader sense of the word on the other hand it is a study of human activity This status of geography makes it particularly sensitive to the cultural and political circumstances under which scholarship and science have developed in Estonia The article by Professor of Human Geography Ott Kurs born 1939 and historian of science PhD in geography Erki Tamrniksaar born 1969 In Political Draughts Between Science and the Humanities Geography at the University of Tartu Between the 17 20 Centuries is devoted to this topic Among other things the article states that regular instruction in geography started at the University of Tartu in 1826 when the second chair of geography in Europe was established here Although the present book does not contain any studies on philosophy at the Tartu University in the 19 century I would still like to mention two names In the early 19 century Kant's philosophy was dominant at Tartu University One of Kant's pupils Gottlob Benjamin Jasche 1762 1839 who had worked under him as a Privatdozent in Königsberg served as a professor here from 1802 1839 In the history of philosophy he is primarily known as the publisher of Kant's Logic **On Hilbert's Sixth Problem** Newton C. A. da

Costa, Francisco Antonio Doria, 2022-01-25 This book explores the premise that a physical theory is an interpretation of the analytico canonical formalism Throughout the text the investigation stresses that classical mechanics in its Lagrangian formulation is the formal backbone of theoretical physics The authors start from a presentation of the analytico canonical formalism for classical mechanics and its applications in electromagnetism Schrödinger's quantum mechanics and field

theories such as general relativity and gauge field theories up to the Higgs mechanism The analysis uses the main criterion used by physicists for a theory to formulate a physical theory we write down a Lagrangian for it A physical theory is a particular instance of the Lagrangian functional So there is already an unified physical theory One only has to specify the corresponding Lagrangian or Lagrangian density the dynamical equations are the associated Euler Lagrange equations The theory of Suppes predicates as the main tool in the axiomatization and examples from the usual theories in physics For applications a whole plethora of results from logic that lead to interesting and sometimes unexpected consequences This volume looks at where our physics happen and which mathematical universe we require for the description of our concrete physical events It also explores if we use the constructive universe or if we need set theoretically generic spacetimes An Informal Introduction to Gauge Field Theories Ian J. R. Aitchison, 2007-09-27 Four forces are dominant in physics gravity electromagnetism and the weak and strong nuclear forces Quantum electrodynamics the highly successful theory of the electromagnetic interaction is a gauge field theory In this short book Dr Aitchison gives an introduction to these theories a knowledge of which is essential in understanding modern particle physics **Physicists Look Back** J Roche, 1990-01-01 In *Physicists Look Back* Studies in the History of Physics various international contributors ranging from physicists engineers theoreticians experimentalists and information scientists to educationalists science historians sociologists and physics teachers discuss the history of physics They describe their own research developments demonstrate ways the history of physics can be helpful in teaching physics and in clearing up difficult concepts and offer professional advice about resources and methods This diversified book provides a historical background to modern physics and illustrates how an appreciation of the historical context of physics can lead to a better understanding of modern physics It covers the history of ozone the ionosphere plasma physics the technical developments of the electron microscope and crystallographic x ray photography and the history of the Josephson effect Well illustrated and containing some autobiographical research not previously published this resource is valuable reading for professional physicists physics teachers educationalists historians and philosophers of science and physicists *Boston Studies in the Philosophy of Science* , 2001 Research Paper , 1980 Arts & Humanities Citation Index , 1980 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world s leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals *Geometry of Einstein's Unified Field Theory* Václav Hlavatý, 1959

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