

Lagrangian And Hamiltonian Formulation Of

Geometric Formulation of Classical and Quantum Mechanics
Quantum Mechanics of Fundamental Systems: The Quest for Beauty and Simplicity
Classical And Quantum Dissipative Systems (Second Edition)
Analysis and Design of Hybrid Systems 2003 (ADHS 03)
An Introduction to Hamiltonian Mechanics
Generalized Hamiltonian Formalism for Field Theory
Nanostructured and Subwavelength Waveguides
Quantum Finance
Fifteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories – Proceedings Of The Mg15 Meeting On General Relativity (In 3 Volumes)
A New Hamiltonian Formulation of General Relativity
Global Formulations of Lagrangian and Hamiltonian Dynamics on Manifolds
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Studies of Nonlinear and Chaotic Phenomena in Solid State Systems
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the geometric formulation of autonomous hamiltonian mechanics in the terms of symplectic and poisson manifolds is generally accepted this book provides the geometric formulation of non autonomous mechanics in a general setting of time dependent coordinate and reference frame transformations

this article is dedicated to claudio bunster on the occasion of his 60th birthday it is a great honor to take this opportunity to express my gratitude to him who in my opinion has been the greatest national physicist ever for his wise guidance and intrepid support through the years as a chilean i can further tell that claudio s contributions have been well far beyond theoretical physics helping our country to be ready to face future challenges through science gravity in diverse dimensions is a subject in which claudio has done major contributions encouraging in many ways the following work that is being made along different fronts in collaboration with my colleagues diego correa gustavo dotti julio oliva and david tempo thepursuitforwormholesolutions whicharehandlesinthespacetime topology it is as old as general relativity and it has appeared in theoretical physics within different subjects ranging from the attempt of describing physics as pure geometry as in the einstein rosen bridge model of a particle 1 to the concept of charge withoutcharge 2 aswell asindifferentissuesconcerningthe euclideanapproach to quantum gravity see e g 3 more recently the systematic study of this kind of objects was pushed forward by the works of morris thorne and yurtsever 4 5

dissipative forces play an important role in problems of classical as well as quantum mechanics since these forces are not among the basic forces of nature it is essential to consider whether they should be treated as phenomenological interactions used in the equations of motion or they should be derived from other conservative forces in this book we discuss both approaches in detail starting with the stoke s law of motion in a viscous fluid and ending with a rather detailed review of the recent attempts to understand the nature of the drag forces originating from the motion of a plane or a sphere in vacuum caused by the variations in the zero point energy in the classical formulation mathematical techniques for construction of lagrangian and hamiltonian for the variational formulation of non conservative systems are discussed at length various physical systems of interest including the problem of radiating electron theory of natural line width spin boson problem scattering and trapping of heavy ions and optical potential models of nuclear reactions are considered and solved

before the riders came to their remote valley the yendri led a tranquil pastoral life when the riders conquered and enslaved them only a few escaped to the forests rebellion wasn t the yendri way they hid or passively resisted taking consolation in the prophecies of their spiritual leader only one possessed the necessary rage to fight back gard the foundling half demon who began a one man guerrilla war against the riders his struggle ended in the loss

of the family he loved and condemnation from his own people exiled he was taken as a slave by powerful mages ruling an underground kingdom bitterer and wiser he found more subtle ways to earn his freedom this is the story of his rise to power his vengeance his unlikely redemption and his maturation into a loving father as well as a lord and commander of demon armies kage baker author of the popular and witty fantasy the anvil of the world returns to that magical world for another story of love adventure and a fair bit of ironic humor at the publisher s request this title is being sold without digital rights management software drm applied

this textbook examines the hamiltonian formulation in classical mechanics with the basic mathematical tools of multivariate calculus it explores topics like variational symmetries canonoid transformations and geometrical optics that are usually omitted from an introductory classical mechanics course for students with only a basic knowledge of mathematics and physics this book makes those results accessible through worked out examples and well chosen exercises for readers not familiar with lagrange equations the first chapters are devoted to the lagrangian formalism and its applications later sections discuss canonical transformations the hamilton jacobi equation and the liouville theorem on solutions of the hamilton jacobi equation graduate and advanced undergraduate students in physics or mathematics who are interested in mechanics and applied math will benefit from this treatment of analytical mechanics the text assumes the basics of classical mechanics as well as linear algebra differential calculus elementary differential equations and analytic geometry designed for self study this book includes detailed examples and exercises with complete solutions although it can also serve as a class text

in the framework of the geometric formulation of field theory classical fields are represented by sections of fibred manifolds and their dynamics is phrased in jet manifold terms the hamiltonian formalism in fibred manifolds is the multisymplectic generalization of the hamiltonian formalism in mechanics when canonical momenta correspond to derivatives of fields with respect to all world coordinates not only to time this book is devoted to the application of this formalism to fundamental field models including gauge theory gravitation theory and spontaneous symmetry breaking all these models are constraint ones their euler lagrange equations are underdetermined and need additional conditions in the hamiltonian formalism these conditions appear automatically as a part of the hamilton equations corresponding to different hamiltonian forms associated with a degenerate lagrangian density the general procedure for describing constraint systems with quadratic and affine lagrangian densities is presented

optical waveguides take a prominent role in photonics because they are able to trap and to transport light efficiently between a point of excitation and a point of detection moreover waveguides allow the management of many of the fundamental properties of light and allow highly controlled interaction with other optical systems for this reason waveguides are

ubiquitous in telecommunications sensing spectroscopy light sources and high power light delivery nanostructured and subwavelength waveguides have additional advantages they are able to confine light at a length scale below the diffraction limit and enhance or suppress light matter interaction as well as manage fundamental properties of light such as speed and direction of energy and phase propagation this book presents semi analytical theory and practical applications of a large number of subwavelength and nanostructured optical waveguides and fibers operating in various regions of the electromagnetic spectrum including visible near and mid ir and thz a large number of approximate while highly precise analytical expressions are derived that describe various modal properties of the planar and circular isotropic anisotropic and metamaterial waveguides and fibers as well as surface waves propagating on planar and circular interfaces a variety of naturally occurring and artificial materials are also considered such as dielectrics metals polar materials anisotropic all dielectric and metal dielectric metamaterials contents are organized around four major themes guidance properties of subwavelength waveguides and fibers made of homogeneous generally anisotropic materials guidance properties of nanostructured waveguides and fibers using both exact geometry modelling and effective medium approximation development of the effective medium approximations for various 1d and 2d nanostructured materials and extension of these approximations to shorter wavelengths practical applications of subwavelength and nanostructured waveguides and fibers nanostructured subwavelengths and waveguides is unique in that it collects in a single place an extensive range of analytical solutions which are derived in various limits for many practically important and popular waveguide and fiber geometries and materials

this book applies the mathematics and concepts of quantum mechanics and quantum field theory to the modelling of interest rates and the theory of options particular emphasis is placed on path integrals and hamiltonians financial mathematics is dominated by stochastic calculus the present book offers a formulation that is completely independent of that approach as such many results emerge from the ideas developed by the author this work will be of interest to physicists and mathematicians working in the field of finance to quantitative analysts in banks and finance firms and to practitioners in the field of fixed income securities and foreign exchange the book can also be used as a graduate text for courses in financial physics and financial mathematics

the three volumes of the proceedings of mg15 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments the scientific program of the meeting included 40 morning plenary talks over 6 days 5 evening popular talks and nearly 100 parallel sessions on 71 topics spread over 4 afternoons these proceedings are a representative sample of the very many oral and poster presentations made at the meeting part a contains plenary and review articles and the contributions from some parallel sessions while parts b and c consist of those from the remaining parallel sessions the contents range from the mathematical foundations of

classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including topics such as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics parallel sessions touch on dark matter neutrinos x ray sources astrophysical black holes neutron stars white dwarfs binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos einstein maxwell systems wormholes exact solutions of einstein s equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy cosmic rays and the history of general relativity

this book provides an accessible introduction to the variational formulation of lagrangian and hamiltonian mechanics with a novel emphasis on global descriptions of the dynamics which is a significant conceptual departure from more traditional approaches based on the use of local coordinates on the configuration manifold in particular we introduce a general methodology for obtaining globally valid equations of motion on configuration manifolds that are lie groups homogeneous spaces and embedded manifolds thereby avoiding the difficulties associated with coordinate singularities the material is presented in an approachable fashion by considering concrete configuration manifolds of increasing complexity which then motivates and naturally leads to the more general formulation that follows understanding of the material is enhanced by numerous in depth examples throughout the book culminating in non trivial applications involving multi body systems this book is written for a general audience of mathematicians engineers and physicists with a basic knowledge of mechanics some basic background in differential geometry is helpful but not essential as the relevant concepts are introduced in the book thereby making the material accessible to a broad audience and suitable for either self study or as the basis for a graduate course in applied mathematics engineering or physics

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