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Lecture Notes in CosmologyClassical ElectrodynamicsLagrangian and Hamiltonian Analytical Mechanics: Forty Exercises Resolved and ExplainedElements of Classical and Quantum Integrable SystemsSolved Problems in Quantum MechanicsCalorimetry for Collider Physics, an IntroductionPhysical OpticsA Mathematical Journey to RelativityClassical Newtonian GravityStructure of MatterBibliografia nazionale italianaNational Union CatalogThe National Union Catalogs, 1963–The National union catalog, 1968–1972Giornale della libreriaCatalogo dei libri in commercioAuthor CatalogNational Library of Medicine CatalogUnitext. Collana di informaticaGiornale di chimica industriale ed applicata Oliver Piattella Kurt Lechner Vladimir Pletser Gleb Arutyunov Leonardo Angelini Michele Livan Giovanni Giusfredi Wladimir–Georges Boskoff Roberto A. Capuzzo Dolcetta Attilio Rigamonti National Library of Medicine (U.S.) National Library of Medicine (U.S.)

cosmology has become a very active research field in the last decades thanks to the impressing improvement of our observational techniques which have led to landmark discoveries such as the accelerated expansion of the universe and have put physicists in front of new mysteries to unveil such as the quest after the nature of dark matter and dark energy these notes offer an approach to cosmology covering fundamental topics in the field the expansion of the universe the thermal history the evolution of small cosmological perturbations and the anisotropies in the cosmic microwave background radiation some extra topics are presented in the penultimate chapter and some standard results of physics and mathematics are available in the last chapter in order to provide a self contained treatment these notes offer an in depth account of the above mentioned topics and are aimed to graduate students who want to build an expertise in cosmology

this book addresses the theoretical foundations and the main physical consequences of electromagnetic interaction generally considered to be one of the four fundamental interactions in nature in a mathematically rigorous yet straightforward way the major focus is on the unifying features shared by classical electrodynamics and all other fundamental relativistic classical field theories the book presents a balanced blend of derivations of phenomenological predictions from first principles on the one hand and concrete applications on the other further it highlights the internal inconsistencies of classical electrodynamics and addresses and resolves often ignored critical issues such as the dynamics of massless charged particles the infinite energy of the electromagnetic field and the limits of the green s function method presenting a rich multilayered and critical exposition on the electromagnetic paradigm underlying the whole universe the book offers a valuable resource for researchers and graduate students in theoretical physics alike

this textbook introduces readers to the detailed and methodical resolution of classical and more recent problems in analytical mechanics this valuable learning tool includes worked examples and 40 exercises with step by step solutions carefully

chosen for their importance in classical celestial and quantum mechanics the collection comprises six chapters offering essential exercises on 1 lagrange equations 2 hamilton equations 3 the first integral and variational principle 4 canonical transformations 5 hamilton jacobi equations and 6 phase integral and angular frequencies each chapter begins with a brief theoretical review before presenting the clearly solved exercises the last two chapters are of particular interest because of the importance and flexibility of the hamilton jacobi method in solving many mechanical problems in classical mechanics as well as quantum and celestial mechanics above all the book provides students and teachers alike with detailed point by point and step by step solutions of exercises in lagrangian and hamiltonian mechanics which are central to most problems in classical physics astronomy celestial mechanics and quantum physics

integrable models have a fascinating history with many important discoveries that dates back to the famous kepler problem of planetary motion nowadays it is well recognised that integrable systems play a ubiquitous role in many research areas ranging from quantum field theory string theory solvable models of statistical mechanics black hole physics quantum chaos and the ads cft correspondence to pure mathematics such as representation theory harmonic analysis random matrix theory and complex geometry starting with the liouville theorem and finite dimensional integrable models this book covers the basic concepts of integrability including elements of the modern geometric approach based on poisson reduction classical and quantum factorised scattering and various incarnations of the bethe ansatz applications of integrability methods are illustrated in vast detail on the concrete examples of the calogero moser sutherland andruijsenaars schneider models the heisenberg spin chain and the one dimensional bose gas interacting via a delta function potential this book has intermediate and advanced topics with details to make them clearly comprehensible

this book presents a large collection of problems in quantum mechanics that are solvable within a limited time and using simple

mathematics the problems test both the student s understanding of each topic and their ability to apply this understanding concretely solutions to the problems are provided in detail eliminating only the simplest steps no problem has been included that requires knowledge of mathematical methods not covered in standard courses such as fuchsian differential equations the book is in particular designed to assist all students who are preparing for written examinations in quantum mechanics but will also be very useful for teachers who have to pose problems to their students in lessons and examinations

this book is exceptional in offering a thorough but accessible introduction to calorimetry that will meet the needs of both students and researchers in the field of particle physics it is designed to provide the sound knowledge of the basics of calorimetry and of calorimetric techniques and instrumentation that is mandatory for any physicist involved in the design and construction of large experiments or in data analysis an important feature is the correction of a number of persistent common misconceptions among the topics covered are the physics and development of electromagnetic showers electromagnetic calorimetry the physics and development of hadron showers hadron calorimetry and calibration of a calorimeter two chapters are devoted to more promising calorimetric techniques for the next collider calorimetry for collider physics an introduction will be of value for all who are seeking a reliable guide to calorimetry that occupies the middle ground between the brief chapter in a generic book on particle detection and the highly complex and lengthy reference book

this textbook provides a sound foundation in physical optics by covering key concepts in a rigorous but accessible manner propagation of electromagnetic waves is examined from multiple perspectives with explanation of which viewpoints and methods are best suited to different situations after an introduction to the theory of electromagnetism reflection refraction and dispersion topics such as geometrical optics interference diffraction coherence laser beams polarization crystallography and anisotropy are closely examined optical elements including lenses mirrors prisms classical and fabry perot interferometers

resonant cavities multilayer dielectric structures interference and spatial filters diffraction gratings polarizers and birefringent plates are treated in depth the coverage also encompasses such seldom covered topics as modeling of general astigmatism via 4x4 matrices fft based numerical methods and bianisotropy with a relativistic treatment of optical activity and the faraday and fresnel fizeau effects finally the history of optics is discussed

this book opens with an axiomatic description of euclidean and non euclidean geometries euclidean geometry is the starting point to understand all other geometries and it is the cornerstone for our basic intuition of vector spaces the generalization to non euclidean geometry is the following step to develop the language of special and general relativity these theories are discussed starting from a full geometric point of view differential geometry is presented in the simplest way and it is applied to describe the physical world the final result of this construction is deriving the einstein field equations for gravitation and spacetime dynamics possible solutions and their physical implications are also discussed the schwarzschild metric the relativistic trajectory of planets the deflection of light the black holes the cosmological solutions like de sitter friedmann lemaître robertson walker and gödel ones some current problems like dark energy are also scketched the book is self contained and includes details of all proofs it provides solutions or tips to solve problems and exercises it is designed for undergraduate students and for all readers who want a first geometric approach to special and general relativity

this textbook offers a readily comprehensible introduction to classical newtonian gravitation which is fundamental for an understanding of classical mechanics and is particularly relevant to astrophysics the opening chapter recalls essential elements of vectorial calculus especially to provide the formalism used in subsequent chapters in chapter two classical newtonian gravity theory for one point mass and for a generic number n of point masses is then presented and discussed the theory for point masses is naturally extended to the continuous case the third chapter addresses the paradigmatic case of

spherical symmetry in the mass density distribution central force with introduction of the useful tool of qualitative treatment of motion subsequent chapters discuss the general case of non symmetric mass density distribution and develop classical potential theory with elements of harmonic theory which is essential to understand the potential development in series of the gravitational potential the subject of the fourth chapter finally in the last chapter the specific case of motion of a satellite around the earth is considered examples and exercises are presented throughout the book to clarify aspects of the theory the book is aimed at those who wish to progress further beyond an initial bachelor degree onward to a master degree and a phd it is also a valuable resource for postgraduates and active researchers in the field

this textbook is based on a mixture of simplified institutional theory and solved problems the choice has been to limit the attention to key concepts and to the most typical aspects of atoms molecules and solids looking at the basic structural aspects without dealing in detail with the properties originating from them the problems are entangled to the formal presentation of the arguments being designed as an intrinsic part of the pathway the student should move by in order to grasp the key concepts

includes entries for maps and atlases

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