Michael I. Eides Howard Grotch Valery A. Shelyuto

Theory of Light Hydrogenic Bound States



Peter Wissmann, Hans-Ulrich Finzel

Theory of Light Hydrogenic Bound States Michael I. Eides, Howard Grotch, Valery A. Shelyuto, 2007 The book describes the modern theory of light hydrogen like systems and the discussion is based on quantum electrodynamics In particular Green's functions relativistic bound state equations and Feynman diagrams are extensively used New theoretical approaches are described and explained The book contains derivation of many theoretical results obtained in recent years A complete set of all theoretical results for the energy levels of hydrogen like bound states as well as comparison with experiment is presented Theory of Light Hydrogenic Bound States Michael I. Eides, Howard Grotch, Valery A. Shelyuto, 2007-04-21 The book describes the modern theory of light hydrogen like systems The discussion is based on quantum electrodynamics Green's functions relativistic bound state equations and Feynman diagrams are extensively used New theoretical approaches are described and explained The book contains derivation of many theoretical results obtained in recent years A complete set of all theoretical results for the energy levels of hydrogen like bound states is presented

Quantum Electrodynamics: Atoms, Lasers And Gravity Ulrich D Jentschura, Gregory S Adkins, 2022-05-30 This book introduces readers to a variety of topics surrounding quantum field theory notably its role in bound states laser physics and the gravitational coupling of Dirac particles It discusses some rather sophisticated concepts based on detailed derivations which cannot be found elsewhere in the literature It is suitable for undergraduates graduates and researchers working on general relativity relativistic atomic physics quantum electrodynamics as well as theoretical laser physics **Ouantum Tunneling in Complex Systems** Joachim Ankerhold, 2007-02-15 In the last two decades remarkable progress has been made in understanding and describing tunneling processes in complex systems in terms of classical trajectories This book introduces recent concepts and achievements with particular emphasis on a dynamical formulation and relations to specific systems in mesoscopic molecular and atomic physics Advanced instanton techniques e g for decay rates and tunnel splittings are discussed in the first part The second part covers current developments for wave packet tunneling in real time and the third part describes thermodynamics and dynamical approaches for barrier transmission in statistical particularly dissipative Electrical Resistivity of Thin Metal Films Peter Wissmann, Hans-Ulrich Finzel, 2007 The intent of this book is to systems report on the electrical optical and structural properties of silver and gold films in dependence on substrate material annealing treatment and gas adsorption A main point is the calculation of the scattering cross section of the conduction electrons All results are substantiated by extended experimental data as well as numerous illustrations and tables Slow Heavy-Particle Induced Electron Emission from Solid Surfaces Hannspeter Winter, Joachim Burgdörfer, 2007-05-03 The emission of electrons from solid surfaces bombarded by slow neutral and ionized heavy particles atoms molecules is reviewed both theoretically and in the light of recent experimental studies by leading groups in the field The book integrates physics of ion beams surfaces and chemical physics and serves both as a reference work for researchers and a textbook for graduate

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