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body problems non inertial frames rigid bodies normal modes chaos theory hamiltonian mechanics and continuum mechanics a particular highlight is the chapter on chaos which focuses on a few simple systems to give a truly comprehensible introduction to the concepts that we hear so much about at the end of each chapter is a large selection of interesting problems for the student 744 in all classified by topic and approximate difficulty and ranging for simple exercises to challenging computer projects a student solutions manual is also available adopted by more than 450 colleges and universities in the us and canada and translated into six languages taylor s classical mechanics is a thorough and very readable introduction to a subject that is four hundred years old but as exciting today as ever the author manages to convey that excitement as well as deep understanding and insight

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one could make the claim that all branches of physics are basically generalizations of classical mechanics it is also often the first course which is taught to physics students the approach of this book is to construct an intermediate discipline between general courses of physics and analytical mechanics using more sophisticated mathematical tools the aim of this book is to prepare a self consistent and compact text that is very useful for teachers as well as for independent study

mechanics classical and quantum explains the principles of quantum mechanics via the medium of analytical mechanics the book describes schrodinger s formulation the hamilton jacobi equation and the lagrangian formulation the author discusses the harmonic oscillator the generalized coordinates velocities as well as the application of the lagrangian formulation to systems that are partially or entirely electromagnetic in character under certain conditions the book examines waves on a string under tension the isothermal cavity radiation and the rayleigh jeans result pertaining to the enumeration of electromagnetic modes other topics include planck s quantum hypothesis and bohr s explanation of the hydrogen spectrum the book describes the two branches of quantum theory namely matrix mechanics and wave mechanics it also covers other topics such as waves wave packets and the schrodinger equation the book cites some applications of the time independent schrodinger equation the author then analyzes the separation of center of mass motion from relative motion relating to the hydrogen atom nuclear physicists scientists and academicians in the field of nuclear physics or quantum mechanics will find this book highly valuable

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