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it is important for every physicist today to have a working knowledge of einstein s theory of general relativity introduction to general relativity published in 2007 was aimed at first year graduate students or advanced undergraduates in physics only a basic understanding of classical lagrangian mechanics is assumed beyond that the reader should find the material to be self contained the mechanics problem of a point mass constrained to move without friction on a two dimensional surface of arbitrary shape serves as a paradigm for the development of the mathematics and physics of general relativity special relativity is reviewed the basic principles of general relativity are then presented and the most important applications are discussed the final special topics section takes the reader up to a few areas of current research an extensive set of accessible problems enhances and extends the coverage as a learning and teaching tool this current book provides solutions to those problems this text and solutions manual are meant to provide an introduction to the subject it is hoped that these books will allow the reader to approach the more advanced texts and monographs as well as the continual influx of fascinating new experimental results with a deeper understanding and sense of appreciation

this textbook aims to provide a clear and concise set of lectures that take one from the introduction and application of newton s laws up to hamilton s principle of stationary action and the lagrangian mechanics of continuous systems an extensive set of accessible problems enhances and extends the coverage it serves as a prequel to the author s recently published book entitled introduction to electricity and magnetism based on an introductory course taught sometime ago at stanford with over 400 students enrolled both lectures assume a good concurrent course in calculus and familiarity with basic concepts in physics the development is otherwise self contained a good introduction to the subject allows one to approach the many more intermediate and advanced texts with better understanding and a deeper sense of appreciation that both students and teachers alike can share

it is an excellent concise introduction to the topic it presents mathematical treatments of abstract concepts in a clear and straightforward way i think it will be most effective as a companion to other excellent introductory texts but readers who want to review the material will find the author s treatment of electricity and magnetism refreshing physics todaythese lectures provide an introduction to a subject that together with classical mechanics quantum mechanics and modern physics lies at the heart of today s physics curriculum this introduction to electricity and magnetism assumes only a good course in calculus and familiarity with vectors and newton

s laws it is otherwise self contained furthermore these lectures although relatively concise take one from coulomb s law to maxwell s equations and special relativity in a lucid and logical fashion an extensive set of accessible problems enhances and extends the coverage review chapters spaced throughout the text summarize the material clear departure points for further study are indicated along the way the principles of electromagnetism as synthesized in maxwell s equations and the lorentz force have such an astonishing range of applicability a good introduction to this subject even at the cost of some repetition allows one to approach the many more advanced texts and monographs with better understanding and a deeper sense of appreciation that both students and teachers can share alike

classical mechanics focuses on the use of calculus to solve problems in classical mechanics topics covered include motion in one dimension and three dimensions the harmonic oscillator vector algebra and vector calculus and systems of particles coordinate systems and central forces are also discussed along with rigid bodies and lagrangian mechanics comprised of 13 chapters this book begins with a crash course or brief refresher in the basic computer language and its immediate application to solving the harmonic oscillator the discussion then turns to kinematics and dynamics in one dimension three dimensional harmonic oscillators moving and rotating coordinate systems and central forces in relation to potential energy and angular momentum subsequent chapters deal with systems of particles and rigid bodies as well as statics lagrangian mechanics and fluid mechanics the last chapter is devoted to the theory of special relativity and addresses concepts such as spacetime coordinates simultaneity lorentz transformations and the doppler effect this monograph is written to help students learn to use calculus effectively to solve problems in classical mechanics

this volume supports the belief that a revised and advanced science education can emerge from the convergence and synthesis of several current scientific and technological activities including examples of research from cognitive science social science and other discipline based educational studies the anticipated result the formation of science education as an integrated discipline

the student solutions manual contains detailed solutions to approximately 50 percent of the odd numbered problems whose answers appear in the back of the book this valuable resource provides students with over 1 000 additional worked examples

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