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the 7th edition continues to provide the same high quality material seen in previous editions it provides extensively rewritten updated prose for content clarity superb new problems in new application areas outstanding instruction on drawing free body diagrams and new electronic supplements to assist learning and instruction

this concise and authoritative book emphasizes basic principles and problem formulation it illustrates both the cohesiveness of the relatively few fundamental ideas in this area and the great variety of problems these ideas solve all of the problems address principles and procedures inherent in the design and analysis of engineering structures and mechanical systems with many of the problems referring explicitly to design considerations

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dynamics 2nd edition offers a student focused approach to dynamics with new problems and images that develop problem solving skills engineers will benefit from the numerous worked problems algorithmic problems and multi part go problems additional images have been added showing a link between an actual system and a modeled analyzed system the importance of communicating solutions through graphics is continuously emphasized with a focus on drawing correct free body diagrams and inertial response diagrams

principles of dynamics presents classical dynamics primarily as an exemplar of scientific theory and method this book is divided into three major parts concerned with gravitational theory of planetary systems general principles of the foundations of mechanics and general motion of a rigid body some of the specific topics covered are keplerian laws of planetary motion gravitational potential and potential energy and fields of axisymmetric bodies the principles of work and energy fictitious body forces and inertial mass are also looked into other specific topics examined are kinematics dynamical basis and properties of the inertia tensor this text will be invaluable to those interested in studying the principles of dynamics

see also geometric mechanics part ii rotating translating and rolling 2nd edition this textbook introduces the tools and language of modern geometric mechanics to advanced undergraduates and beginning graduate students in mathematics physics and engineering it treats the fundamental problems of dynamical systems from the viewpoint of lie group symmetry in variational principles the only prerequisites are linear algebra calculus and some familiarity with hamilton s principle and canonical poisson brackets in classical mechanics at the beginning undergraduate level the ideas and concepts of geometric mechanics are explained in the context of explicit examples through these examples the student develops skills in performing computational manipulations starting from fermat s principle working through the theory of differential forms on manifolds and transferring these ideas to the applications of reduction by symmetry to reveal lie poisson hamiltonian formulations and momentum maps in physical applications the many exercises and worked answers in the text enable the student to grasp the essential aspects of the subject in addition the modern language and application of differential forms is explained in the context of geometric mechanics so that the importance of lie derivatives and their flows is clear all theorems are stated and proved explicitly the organisation of the first edition has been preserved in the second edition however the substance of the text has been rewritten throughout to improve the flow and to enrich the development of the material in particular the role of noether s theorem about the implications of lie group symmetries for conservation laws of dynamical systems has been emphasised throughout with many applications a

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