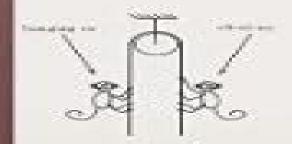
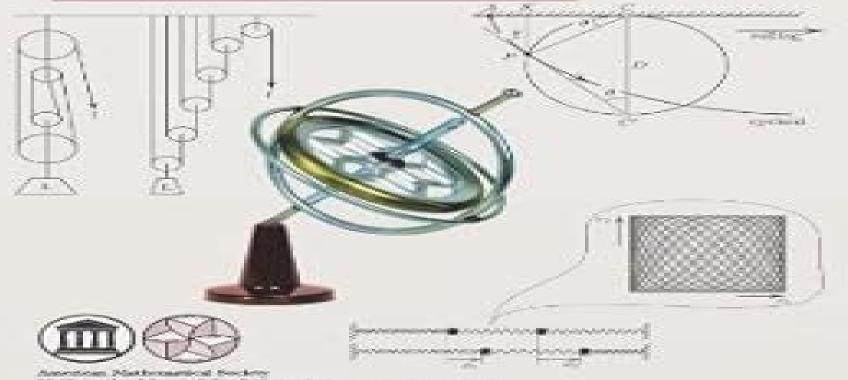
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Classical Mechanics with Calculus of Variations and Optimal Control An Intuitive Introduction



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Problems in Classical Mechanics L. N. Katkar, 2014-04-02 PROBLEMS IN CLASSICAL MECHANICS presents a lucid treatment of the formulations of Lagrangian Hamiltonian and the Principles of Calculus of Variations etc important for the study of modern physics The study of classical mechanics prepares students to apply the principles and the mathematical tools to solve real life problems The book also incorporates and discusses in detail topics such as Central Force Motion Rigid Body Motion and Canonical Transformations KEY FEATURES Around 200 solved examples with complete mathematical theory Around 70 examples given as an exercise to test and develop students understanding The physical interpretation of the Hamiltonian is highlighted Classical Mechanics Emmanuele DiBenedetto, 2010-10-17 Offers a rigorous mathematical treatment of mechanics as a text or reference Revisits beautiful classical material including gyroscopes precessions spinning tops effects of rotation of the Earth on gravity motions and variational principles Employs mathematics not only as a unifying language but also to exemplify its role as a catalyst behind new concepts and discoveries Classical Mechanics

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Classical Mechanics Dieter Strauch, 2009-06-07 This upper level undergraduate and beginning graduate textbook primarily covers the theory and application of Newtonian and Lagrangian but also of Hamiltonian mechanics In addition included are elements of continuum mechanics and the accompanying classical field theory wherein four vector notation is introduced without explicit reference to special relativity. The author's writing style attempts to ease students through the primary and secondary results thus building a solid foundation for understanding applications. Numerous examples illustrate the material and often present alternative approaches to the final results Lectures on the Calculus of Variations and Optimal Control Theory Laurence Chisholm Young, 1980 Applications of the Calculus to Mechanics Oliver Dimon Kellogg, ER 1876-1943 Hedrick, 2023-07-18 A classic text on the applications of calculus to mechanics this book presents the fundamental principles of classical physics and their mathematical expressions in a clear and comprehensive manner With numerous examples and exercises it offers a rigorous and intuitive introduction to the calculus of variations and the dynamics of particles and systems and provides a solid foundation for further study in physics engineering and related fields This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

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