



## Analytical Mechanics (Classic Reprint)

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ANALYTICAL MECHANICS INTRODUCTION. 1. Scope and Aim of Mechanics. -Mechanics is the science of motion. It has a twofold object: First, to describe the motions of bodies and to interpret them by means of a few laws and principles, which are generalizations derived from observation and experience. Second, to predict the motion of bodies for all times when the circumstances of the motion for any one instant are given, in addition to the special laws which govern the motion. The present tendency in science is toward regarding all physical phenomena as manifestations of motion. Complicated and apparently dissimilar phenomena are being explained by the interactions and motions of electrons, atoms, molecules, cells, and other particles. The kinetic theory of heat, the wave theories of sound and light, and the electron theory of electricity are examples which illustrate the tendency toward a mechanical interpretation of the physical universe. This tendency not only emphasizes the fundamental principles of mechanics but also emphasizes the importance of the study of mechanics in the physical universe. Table of Contents TABLE OF CONTEXTS; Table of notations ; Introduction 1; Chapter I Addition and Resolution of Vectors; Scalar and vector magnitudes 3; Addition of two vectors 4; Difference of two vectors 7; Resolution...



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