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(Dr. Torrey Osinski DVM)

## ANALYTICAL MECHANICS (CLASSIC REPRINT)



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Forgotten Books. Paperback. Condition: New. 364 pages. Dimensions: 9.0in. x 6.0in. x 1.2in.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 arc 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 arc 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 arc being ex-plained 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 arc examples which illustrate the tendency toward a mechanical interpretation of the physical universe. This tendency not only emphasizes the fundaTable of Contents TABLE OF CONTEXTS; Table of notations ; Introduction 1; Chapter I Addition and Resolution ok Vectors; Scalar and vector magnitudes 3; Addition of two vectors 4; Difference of two vectors 7; Resolution of vectors into components 8; Resultant of any number of vectors 9; Chapter II Equilibrium of a Particle; Particle W; Torcc II; The hiW of notion find reaction 15; Condition of equilibrium of a particle 10; Sliding friction 21; Resultant of a system of forces 2a; Chapter III Equilibrium ok a Rigid Rody; Rigid body 31; Theorems on the motion of rigid bodies 31; Linear and angular action 35; The law of action and reaction 39; Conditions of equilibrium of a rigid body 40; Resultant of n system of forccH 47; Friction on journals and pivots - 51; Rolling friction...

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