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Newton's laws relate to rotating systems in the same way that the laws relate to translational motion. For any system of particles, the rate of change of internal angular momentum about an origin is equal

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mechanics of a single particle from both the kinetic and the dynamical...  
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(PDF) Introduction to Mechanics of Particles and Systems  
Classical mechanics describes the motion of macroscopic objects, from projectiles to parts of machinery, and astronomical objects, such as spacecraft, planets, stars and galaxies.

Classical mechanics - Wikipedia  
Classical mechanics is a physical theory describing the motion of macroscopic objects, from projectiles to parts of machinery, and astronomical objects, such as spacecraft, planets, stars and galaxies. For objects governed by classical mechanics, if the present

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Systems known, it is possible to predict how it will move in the future and how it has moved in the past. The earliest development of classical mechanics is often referred to as Newtonian mechanics. It consists of the physical concepts e

Classical mechanics - Wikipedia  
Beginning with a review of Newton's Laws applied to systems of particles, the course moves on to rotational motion, dynamical gravity (Kepler's Laws) and motion in non-inertial reference frames. Systems of coupled oscillators are studied.

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In mechanics, the virial theorem provides a general equation that relates the average over time of the total kinetic energy of a stable system of discrete particles, bound by potential forces, with that of the total potential energy of the system. Mathematically, the theorem states

Virial theorem - Wikipedia

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two-semester course, provides a complete account of the classical mechanics of particles, systems of particles, and rigid bodies.

Classical Dynamics of Particles and Systems: Thornton ...

In statistical mechanics, a microstate is a specific microscopic configuration of a thermodynamic system that the system may occupy with a certain probability in the course of its thermal fluctuations. In contrast, the macrostate of a system refers to its macroscopic properties, such as its temperature, pressure, volume and density. Treatments on statistical mechanics define a macrostate as ...

Microstate (statistical mechanics)

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- Wikipedia  
Quantum mechanics, science dealing with the behavior of matter and light on the atomic and subatomic scale. It attempts to describe and account for the properties of molecules and atoms and their constituents—electrons, protons, neutrons, and other more esoteric particles such as quarks and gluons.

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