

Basic inclined plane EQ001F

Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: Mechanics of solids. Kinematics. Referential, position, movement and trajectory. The mobile. Trajectory and displacement. The difference between displacement and distance traveled. The Cartesian frame of reference in the plane, Cartesian plane. Scalar magnitude. Vector greatness. The MRU and its characteristics. What is Uniform Rectilinear Motion (MRU). The meeting of two pieces of furniture in MRU with opposite directions. Progressive Uniform Rectilinear Motion (MRU). Progressive MRU (mobile moving away from the origin). Retrograde MRU (mobile approaching the origin). Meeting point solution by superimposing graphics. Percent relative error. Dynamics. Frictional forces and Newtons first law of motion. The force of static friction. The coefficient of static friction, static and kinetic coefficients of sliding on an inclined plane. The coefficient of kinetic friction for a metallic specimen. The effect of lubricants on the coefficients of static and kinetic friction of sliding. Static. Driving force, resisting force and mechanical advantage of the inclined plane, a simple machine. Measuring mass weights.

Knowledge areas

Physics

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