Strengths Panel

EQ032JPB

Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: Statics. Mass, weight and determination of local g value. Mass is a scalar quantity and force is a vector quantity, the vector. Measuring mass weights. Table and graph. The composition of competing coplanar forces, at 90° to each other. Force and vector. Characteristics of a vector. Graphical representation of a vector quantity. Collinear vectors and coplanar vectors. The resulting vector. Operations with coplanar and non-parallel vectors. Some types of strength. Measuring the weight force of masses. Measuring the component forces and determining the resultant force. Comparing the resultant force with the balancing force. The composition and decomposition of competing coplanar forces at 60° to each other. The parallelogram rule. Measuring the angle between component forces. Measuring the component forces and determining the resultant force. Comparing the resultant force with the balancing force. The composition and decomposition of competing coplanar forces within 120° of each other. The composition and decomposition of competing coplanar forces. Mass is a scalar quantity and force is a vector quantity. The resulting vector. Vector operations. Force diagram. Measuring the angle, the component forces and determining the resultant force. Calculating the percentage relative error. Wave. The simple pendulum and its laws. The ideal simple pendulum. Elongation and amplitude in the movement of a simple pendulum. The period and frequency of a simple pendulum. The law of pendulum isochronism. The law of masses and pendular substances. The law of lengths of the simple pendulum, etc.

Knowledge areas

Physics

Key Experiments