

by difference, the buoyant force acting on a body submerged in a liquid. Archimedes principle, buoyancy and its relationship with the volume and density of the displaced liquid. The principle of the impenetrability of matter. How to fix the volume difference. Measuring forces with the dynamometer. Calculating and determining the characteristics of the buoyant hydrostatic force. Determining the weight of the volume of liquid displaced. The relationship between buoyancy and the weight of the volume of liquid displaced. Archimedes principle, Archimedes theorem. Absolute density (specific mass) and relative density. The specific weight. The relationship between specific gravity and absolute density. The relationship between buoyancy and volume, the density of the displaced liquid and the acceleration due to gravity. The relationship between buoyancy and the volume and specific weight of the liquid displaced. Wave. The MHS in a mass system and oscillating helical spring. Simple harmonic motion (MHS) performed by a mass coupled to a spring. The expression that translates MHS. Elastic potential energy. The pulse of the MHS, etc.

Knowledge areas

Physics - Math & Science Fundamentals - Compact Kits

Key Experiments

The movement and the trajectory.

The frictional forces and Newton's first law of motion

The movement and the trajectory.

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