Answer on Question#39364, Physics, Nuclear Physics

Question:

An object of weight 200 N is floating in a liquid. What is the magnitude of buoyant force acting on it?

Answer:

where mg is weight of the body, F_b is buoyant force.

Newton's first law of motion:

$$mg = F_b$$

Therefore:

$$F_b = 200\ N$$

Answer: $200\ N$