

Answer on Question #64608, Physics / Other

Give an example of a body which is at rest but not in equilibrium.

Solution:

A ball thrown vertically upward and has reached its highest point: it is at rest relatively to the ground, but it not in equilibrium as it is bound to fall down.

Let us look at the definitions for rest and equilibrium:

Object is at rest. Therefore it's velocity is zero.

Object is not in equilibrium. This is equivalent to saying "The net force on the object is not zero".

Answer: A ball thrown vertically upward and has reached its highest point.

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