

Answer on Question #77097 - Chemistry - Physical Chemistry

Question:

An object of mass 12 kg is pushed up a frictionless slope with a 35° angle to the horizontal over a distance of 22 m by an 82 N force. Calculate the following:

- i) the work done on the object;
- ii) the potential and kinetic energy imparted to the object.

Solution:

$$w = Fd$$

with

w is work

F is opposing force

d is distance

$$w = 82 * 22 = 1804 \text{ N*m.}$$

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