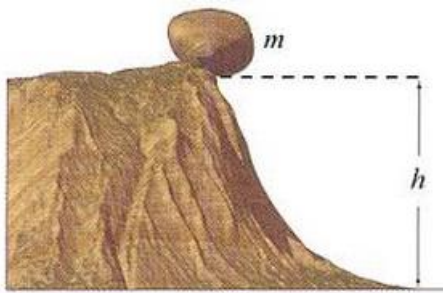


Answer on Question #49679-Physics-Mechanics-Kinematics-Dynamics

What is the potential energy of a 190 kg rock on a 1210 m ledge?



Solution:

Gravitational Potential Energy:

$$U = F \cdot \Delta h = m \cdot g \cdot \Delta h = 190 \cdot 9.81 \cdot 1210 = 2255319 = 2.26 \cdot 10^6 \text{ (J)}$$

Answer: $2.26 \cdot 10^6 \text{ (J)}$