

Answer on Question #82205, Physics / Mechanics | Relativity

Question:

A car of mass 1200kg falls a vertical distance of 24 m starting from rest. What is the workdone by the force of gravity on the car? ($g = 10 \frac{\text{m}}{\text{s}^2}$)

Solution:

In accordance with the work definition $A = F \cdot d = mgd$, what means the work

$$A = 1200 \cdot 10 \cdot 24 = 0.29 \text{ (MJ)}.$$

The answer:

$$A = 0.29 \text{ MJ}.$$

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