EE3900 Assignment - 1

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1 QUESTION 2.17.A

Give the magnitude and direction of the net force acting on a stone of mass 0.1 kg,just after it is dropped from the window of a stationary train.

2 SOLUTION

As the train is stationary, the only force acting on the mass is gravitational force.

The direction of force is $\begin{pmatrix} 0 \\ -1 \\ 0 \end{pmatrix}$.

And the magnitude is 1N. $\left(Taking, \ g = 10ms^{-2} \right)$