## Chapter 6 Problem $36{ }^{\dagger}$

## Given

$\Delta x=100 m$
$t=10.6 \mathrm{~s}$
$W=22.4 k J$

## Solution

Find the average power output.
Average power is the change in work divided by the change in time. Therefore, the average power is

$$
\bar{P}=\frac{W}{\Delta t}=\frac{(22,400 \mathrm{~J})}{10.6 \mathrm{~s}}=2110 \mathrm{~W}=2.11 \mathrm{~kW}
$$

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[^0]:    ${ }^{\dagger}$ Problem from Essential University Physics, Wolfson

