Question \#72946, Physics / Other

A rectangular bar of iron 2 cm by 2 cm in cross section and is 40 cm long what is the resistance of bar, when resistivity for iron is $1.1 \times 10$ power- 7 ohm.m

## Solution

$R=\frac{\rho L}{A}=\frac{\rho L}{a b} ;$
$R=\frac{1.1 \times 10^{-7} \times 0.40}{0.02^{2}}=1.1 \times 10^{-4} \Omega$

Answer: $1.1 \times 10^{-4} \Omega$.
Answer provided by https://www.AssignmentExpert.com

