

16. An electric field of 260 000 N/C points due west at a certain spot. What are the magnitude and direction of the force that acts on a charge of -7.0 μC at this spot?

$$\vec{F} = Q\vec{E} = (-7.0 \times 10^{-6}\text{C})(2.60 \times 10^5 \text{N/C} \hat{W}) = -1.82 \text{N} \hat{W} = 1.82 \text{N} \hat{E}$$

$\vec{F} = 1.8 \text{N} \hat{E}$

Dr. Donovan's Classes
Page

Dr. Donovan's PH 202
Homework Page

NMU Physics
Department Web Page

NMU Main Page

Please send any comments or questions about this page to ddonovan@nmu.edu

This page last updated on January 7, 2021