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H2 Electric Flux, Gauss's Law & Its Applications (22.1-5)

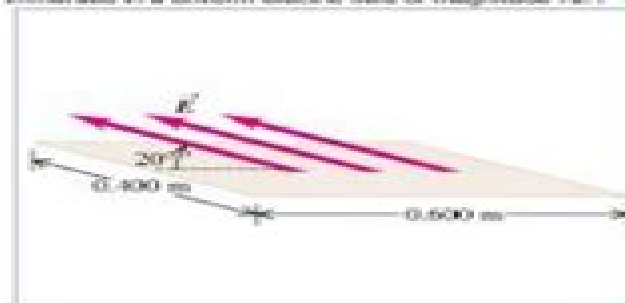
Due: 11:59pm on Monday, September 16, 2013

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Exercise 22.2

Description: A flat sheet is in the shape of a rectangle with sides of lengths 0.400 m and 0.600 m. The sheet is immersed in a uniform electric field of magnitude E that is directed at 20 degrees(s) from the plane of the sheet (the figure). (a) Find the...

A flat sheet is in the shape of a rectangle with sides of lengths 0.400 m and 0.600 m. The sheet is immersed in a uniform electric field of magnitude 72.1 N/C that is directed at 20° from the plane of the sheet (the figure).



Part A

Find the magnitude of the electric flux through the sheet.

Express your answer using two significant figures.

ANSWER:

$$\Phi = E(0.4)(0.6)\sin\left(\frac{20\pi}{180}\right) = 0.9 \text{ N} \cdot \text{m}^2/\text{C}$$

Problem 22.8

Description: A point charge q_1 is located on the x-axis at x , and a second point charge q_2 is on the y-axis at y . (a) What is the total electric flux due to these two point charges through a spherical surface centered at the origin and with radius r_1 ? (b) ...A point charge $q_1 = 3.50\text{ nC}$ is located on the x-axis at $x = 2.30\text{ m}$, and a second point charge $q_2 = -5.90\text{ nC}$ is on the y-axis at $y = 1.10\text{ m}$.

Part A

What is the total electric flux due to these two point charges through a spherical surface centered at the origin and with radius $r_1 = 0.725\text{ m}$?Take the permittivity of free space to be $8.85 \times 10^{-12} \text{ C}^2/\text{N} \cdot \text{m}^2$.

ANSWER:

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