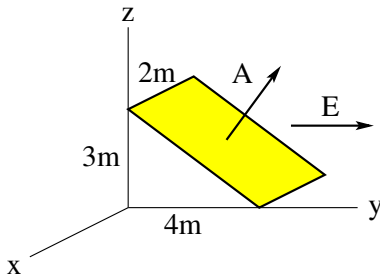


Electric Flux: Application (1)



Consider a rectangular sheet oriented perpendicular to the yz plane as shown and positioned in a uniform electric field $\vec{E} = (2\hat{j})\text{N/C}$.



- (a) Find the area A of the sheet.
- (b) Find the angle between \vec{A} and \vec{E} .
- (c) Find the electric flux Φ_E through the sheet.