

93. The magnetic flux is

$$\Phi_B = \vec{B} \cdot \vec{A} = BA \cos 57^\circ = (4.2 \times 10^{-6} \text{ T}) (2.5 \text{ m}^2) \cos 57^\circ = 5.7 \times 10^{-5} \text{ Wb} .$$