

# 2025 EDITION – VERIFIED CHAPTERS

## CHAPTER 1

**P.P.1.1** A proton has  $1.602 \times 10^{-19}$  C. Hence,  $6.467$  billion protons have  
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0402 \times 10^{-7}$  C

**P.P.1.2**  $i = dq/dt = d(20 - 15t + 10t^2)/dt = (-15 + 20t) \text{ mA}$   
At  $t = 1.0$  sec,  $i = -15 + 20 = 5 \text{ mA}$   
At  $t = 3.0$  sec,  $i = -15 + 60 = 45 \text{ mA}$

**P.P.1.3**  $q = \int i dt = \int_{-1}^2 (20 - 15t + 10t^2) dt = 20t - \frac{15}{2}t^2 + \frac{10}{3}t^3$   
 $= 8 + 80 - 15 = 73 \text{ mC}$

**P.P.1.4** (a)  $V_{ab} = \int_a^b E \cdot dl = 1000 \text{ V} = 1 \text{ kV}$

(b)  $V_{ba} = \int_b^a E \cdot dl = -1000 \text{ V} = -1 \text{ kV}$

**P.P.1.5**  $i = dq/dt = d(20 - 15t + 10t^2)/dt = (-15 + 20t) \text{ mA}$

# SOLUTION MANUAL

(a)  $q = \int_{-1}^2 i dt = \int_{-1}^2 (20 - 15t + 10t^2) dt = 20t - \frac{15}{2}t^2 + \frac{10}{3}t^3$   
 $= 8 + 80 - 15 = 73 \text{ mC}$   
 $p = qv = 73 \times 10^{-3} \times 10 = 0.73 \text{ mC} \cdot \text{m/s}$   
At  $t = 3$  sec,  $p = 73 \times 10^{-3} \times 45 = 3.285 \text{ mC} \cdot \text{m/s}$   
 $= 3.285 \text{ mC} \cdot \text{m/s}$

**P.P.1.6**  $p = qv = 15 \times 12 = 180 \text{ mC} \cdot \text{m/s}$

$W = 180 \times 10 = 1800 \text{ J}$

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Seventh Edition

Mc  
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