

2025 EDITION – VERIFIED CHAPTERS

CHAPTER 1

P.P.1.1 A proton has 1.602×10^{-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 $i = dq/dt = d(20 - 15t + 10t^2)/dt = (-15 + 20t + 2t^3)$ mA
At $t = 1.0$ ms, $i = -15 + 20 \times 10^{-3} = -15 + 0.020 = -14.980$ mA

P.P.1.3 $q = \int i dt = \int_0^2 (20 - 15t + 10t^2) dt = [20t - \frac{15}{2}t^2 + \frac{10}{3}t^3]_0^2$
 $= 8 + 60 - 150 = 26.67$ C

P.P.1.4 (a) $V_{ab} = d\phi/dq = 1000t = 20$ V
(b) $V_{ba} = d\phi/dq = 1000(-1) = -20$ V

P.P.1.5 $P = dW/dt = d(1000t^2)/dt = 2000t$ W
At $t = 0.5$ s, $P = 2000 \times 0.5 = 1000$ W
 $= 1.0$ kW

(a) $w = q + 10 \int_0^2 i dt = q + 10 [20t - \frac{15}{2}t^2 + \frac{10}{3}t^3]_0^2 = 8 + 60 - 150 = 26.67$ C
 $p = vi = 5 \cos(300\pi t) (20 - 15t + 10t^2) = (100 \cos(300\pi t) - 1500t \cos(300\pi t) + 5000t^2 \cos(300\pi t))$
At $t = 5$ ms, $p = 5 \cos(300\pi \times 5 \times 10^{-3}) = (5000 \cos(1.5\pi) - 15000 \cos(4.5\pi) + 50000 \cos(7.5\pi)) = 10,000$ W

P.P.1.6 $p = vi = 115 \times 12 = 1380$ watts; $w = p \times t$
 $W = 1380 \times 24 = 33,120$ J, watt-hours

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