

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 $i = dq/dt = d(20 - 15t + 10t^2)/dt = (-15 + 20t) \text{ mA}$
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 $q = \int i dt = \int_{-1}^2 (20 - 15t + 10t^2) dt = [20t - \frac{15}{2}t^2 + \frac{10}{3}t^3]_{-1}^2$
 $= 8 + 6.25 - 1.67 = 12.58 \text{ C}$

P.P.1.4 (a) $V_{ab} = d\phi/dq = 100/5 = 20 \text{ V}$
(b) $V_{ba} = d\phi/dq = -100/-5 = 20 \text{ V}$

P.P.1.5 $P = i^2 R = (20 - 15t + 10t^2)^2 \times 10^{-3}$
 $= 10^{-3} (400 - 600t + 350t^2 - 300t^3 + 100t^4)$
 $= 11.82 \text{ watts}$

(a) $w = \int P dt = \int_{-1}^2 10^{-3} (400 - 600t + 350t^2 - 300t^3 + 100t^4) dt$
 $= 10^{-3} [400t - 300t^2 + \frac{350}{3}t^3 - \frac{300}{4}t^4 + \frac{100}{5}t^5]_{-1}^2$
At $t = 2$ sec, $w = 10^{-3} (800 - 1200 + \frac{1400}{3} - \frac{2400}{4} + \frac{6400}{5}) = 0.5877 \text{ J}$
At $t = -1$ sec, $w = 10^{-3} (-400 + 300 - \frac{350}{3} + \frac{750}{4} - \frac{200}{5}) = -0.2683 \text{ J}$
 $\therefore \text{Total work done} = 0.5877 - (-0.2683) = 0.856 \text{ J}$

P.P.1.6 $p = vi = 15 \times 12 = 180 \text{ watts}$; $w = p \times t$
 $W = 180 \times 24 = 4320 \text{ J}$ work done

Fundamentals of

ELECTRIC CIRCUITS

Seventh Edition

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Techniques in Electromagnetics Matthew N. O. Sadiku, Sudarshan R. Nelatury, 2015-10-28 Analytical Techniques in Electromagnetics is designed for researchers scientists and engineers seeking analytical solutions to electromagnetic EM problems The techniques presented provide exact solutions that can be used to validate the accuracy of approximate solutions offer better insight into actual physical processes and can be utilized **Fundamentals of Electric Circuits**

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