

2025 EDITION – VERIFIED CHAPTERS

CHAPTER 1

P.P.1.1 A proton has 1.602×10^{-19} C. Hence, 6.467 billion protons have
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0362 \times 10^{-7}$ C

P.P.1.2 $i = dq/dt = d(20 - 15t + 10t^2)/dt = (-15 + 20t - 20t^2)$ mA
At $t = 1.0$ sec, $i = -15 + 20(1)^2 = -15 + 20(1) = +5.000$ mA

P.P.1.3 $q = \int i dt = \int_0^2 (50t + 10t^2) dt = 25t^2 + \frac{10}{3}t^3$
 $= 8 + 80 - 107 = 26.67$ C

P.P.1.4 (a) $V_a = iR = 10(10) = 100$ V = 20 V

(b) $V_b = iR = 10(-10) = -100$ V = -20 V

P.P.1.5 $P = i^2 R = (10)^2 (2) = 200$ W

SOLUTION MANUAL

(b) $w = q \times V = 10 \int_0^2 (50t + 10t^2) dt = 50 \times 8 + 10 \times \frac{80}{3} = 400 + 266.67 = 666.67$ J
 $p = vi = 5 \cos(30t)(5) = (250 \cos^2 t) \sin(30t)$
At $t = 5$ ms, $p = 5 \cos(15.708)(5) = (250 \cos^2 t) \sin(15.708)$
 $= 500.587799 \cos(2)(267.042)(0.89975) = 23.264$ watts

P.P.1.6 $p = vi = 115 \times 12 = 1380$ watts; $w = p \times t$

$W = 1380 \times 24 = 33.12$ k watt-hours

Fundamentals of

ELECTRIC CIRCUITS

Seventh Edition

Mc
Graw
Hill

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Michael Brown



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