

2025 EDITION – VERIFIED CHAPTERS

CHAPTER 1

PF.1.1 A proton has 1.602×10^{-19} C. Hence, 6.467 billion protons have
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0423 \times 10^{-7}$ C

PF.1.2 $i = dq/dt = d(20 - 15t - 10t^2)/dt = (-15 - 20t - 20t^2)$ mA
 At $t = 1.0$ ms, $i = -15 - 20 \times 10^{-3} = -15 + 0.2000 = -14.8000$ mA

PF.1.3 $q = \int i dt = \int (-15 + 0.2t) dt = -15t + \frac{1}{2}t^2$
 $= 8 + 80t - 15t^2 = 26.67$ C

PF.1.4 (a) $V_a = iR = 1000 \times 20 = 20$ V

(b) $V_b = iR = 1000 \times 20 = -20$ V

PF.1.5 $i = dq/dt = d(5t^2 + 10t - 5t^3)/dt = 10t + 10 - 15t^2$

SOLUTION MANUAL

$= 11.82$ mA

(b) $q = \int i dt = \int (10t + 10 - 15t^2) dt = 5t^2 + 10t - 5t^3$

$q = 11 = 5t^2 + 10t - 5t^3 = (5t^3 + 10t + 11)$

At $t = 3$ ms, $q = 5 \cos(25.7052) = (50000 \cos) \sin(25.7052)$
 $= 500.587799 \sin(25.7052) = 217.0426189922 = 217.043$ mA

PF.1.6 $q = \int i dt = 115 \times 12 = 1380$ mA; $w = q \times V$

$W = 1380 \times 24 = 33.12$ kJ, with losses

Fundamentals of

ELECTRIC CIRCUITS

Seventh Edition

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ALL CHAPTERS INCLUDED

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A Gutmann



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