

2025 EDITION – VERIFIED CHAPTERS

CHAPTER 1

PF.1.1 A proton has 1.602×10^{-19} C. Hence, 6.467 billion protons have
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.032 \times 10^{-7}$ C

PF.1.2 $i = dq/dt = d(20 - 15t - 10t^2)/dt = (-15 - 20t - 20t^2)$ mA
 At $t = 1.0$ ms, $i = -15 + 20 \times 10^{-3} = -15 + 0.020 = -14.980$ mA

PF.1.3 $q = \int i dt = \int (-15 + 20t - 20t^2) dt = -15t + 10t^2 - \frac{20}{3}t^3$
 $= 8 + 80 - 137 = 26.67$ C

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

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

SOLUTION MANUAL

(c) $w = q \times V = 26.67 \times 20 = 533.4$ mJ
 $p = vi = 3 \text{ mA} \times 20 \text{ V} = 60 \text{ mW}$
 At $t = 3$ ms, $p = 3 \text{ mA} \times 20 \text{ V} = 60 \text{ mW}$
 $w = 60 \text{ mW} \times 3 \text{ ms} = 180 \text{ nJ}$

PF.1.6 $p = vi = 115 \times 12 = 1380$ watts, $w = p \times t$
 $W = 1380 \times 24 = 33.12$ kJ, with losses

Fundamentals of

ELECTRIC CIRCUITS

Seventh Edition



Charles Alexander
 Matthew Sadiku

ALL CHAPTERS INCLUDED

Foundation Of Electric Circuits Solution Manual

Zhe Xu



Foundation Of Electric Circuits Solution Manual:

Foundation Of Electric Circuits Solution Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Foundation Of Electric Circuits Solution Manual**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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