

# 2025 EDITION – VERIFIED CHAPTERS

## CHAPTER 1

**PF1.1** A proton has  $1.602 \times 10^{-19}$  C. Hence,  $6.467$  billion protons have  
 $= (1.602 \times 10^{-19}) \times (6.467 \times 10^{11}) = 1.032 \times 10^{-7}$  C

**PF1.2**  $i = dq/dt = d(20 - 15t + 5t^2)/dt = (-15 + 10t) \text{ mA}$   
 At  $t = 1.0$  ms,  $i = -15 + 10(1) = -15 + 10 = -5 \text{ mA}$

**PF1.3**  $q = \int i dt = \int (-5 + 10t) dt = -5t + 5t^2$   
 $= 5 + 10 - 15 = 0 \text{ C}$

**PF1.4** (a)  $V_a = d\phi/dq = 1000 = 20 \text{ V}$

(b)  $V_b = d\phi/dq = 1000 - 20 = 980 \text{ V}$

# SOLUTION MANUAL

(c)  $w = q \int i dt = q \int (-5 + 10t) dt = q(-5t + 5t^2)$   
 $= 5 \text{ C} \times (-5 + 10) = 5 \text{ C} \times 5 = 25 \text{ mJ}$   
 At  $t = 3$  ms,  $w = 5 \text{ C} \times (15 - 45) = -5 \text{ C} \times 30 = -150 \text{ mJ}$   
 $= 150 \text{ mJ}$  (work done by field) = **15.0 mJ** work

**PF1.6**  $p = vi = 15 \times 12 = 180 \text{ watts}$ ,  $w = p \times t$

$W = 180 \times 24 = 4320 \text{ kJ}$  work done

Fundamentals of

# ELECTRIC CIRCUITS

Seventh Edition

Mc  
Graw  
Hill

Charles Alexander  
Matthew Sadiku

# ALL CHAPTERS INCLUDED

# Fundamentals Of Electric Circuits Solution

**Yi-Tong Ma**



## **Fundamentals Of Electric Circuits Solution:**

This book delves into Fundamentals Of Electric Circuits Solution. Fundamentals Of Electric Circuits Solution is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Fundamentals Of Electric Circuits Solution, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Fundamentals Of Electric Circuits Solution
- Chapter 2: Essential Elements of Fundamentals Of Electric Circuits Solution
- Chapter 3: Fundamentals Of Electric Circuits Solution in Everyday Life
- Chapter 4: Fundamentals Of Electric Circuits Solution in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Fundamentals Of Electric Circuits Solution. The first chapter will explore what Fundamentals Of Electric Circuits Solution is, why Fundamentals Of Electric Circuits Solution is vital, and how to effectively learn about Fundamentals Of Electric Circuits Solution.

3. In chapter 2, this book will delve into the foundational concepts of Fundamentals Of Electric Circuits Solution. The second chapter will elucidate the essential principles that need to be understood to grasp Fundamentals Of Electric Circuits Solution in its entirety.

4. In chapter 3, this book will examine the practical applications of Fundamentals Of Electric Circuits Solution in daily life. This chapter will showcase real-world examples of how Fundamentals Of Electric Circuits Solution can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Fundamentals Of Electric Circuits Solution in specific contexts. The fourth chapter will explore how Fundamentals Of Electric Circuits Solution is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Fundamentals Of Electric Circuits Solution. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Fundamentals Of Electric Circuits Solution.

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### **Fundamentals Of Electric Circuits Solution Introduction**

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