

# DIRECT CURRENT GENERATOR AND MOTOR PRINCIPLES

2-1] THIRTY-SIX DRY CELLS ARE CONNECTED IN FOUR PARALLEL GROUPS OF NINE CELLS IN SERIES PER GROUP IF THE VOLTAGE AND CURRENT RATING OF EACH CELL IS 1.45 VOLTS AND 4 AMP., RESPECTIVELY.

a) CALCULATE THE VOLTAGE, CURRENT, AND POWER RATING OF THE ENTIRE COMBINATION. b) RECALCULATE THE PROBLEM FOR NINE PARALLEL GROUPS OF FOUR CELLS IN SERIES PER GROUP.

GIVEN:

36 DRY CELLS

$V_{\text{CELL}} = 1.45$  VOLTS

$I_{\text{CELL}} = 4$  AMP

REQUIRED:

a)  $V_T$ ,  $I_T$ , &  $P_T$  OF THE COMBINATION IN FIG. A.

b)  $V_T$ ,  $I_T$  &  $P_T$  IN FIG. B

SOLUTION:

a)  $V_T = (9)(1.45)$

$V_T = 13.05$  VOLTS

$I_T = (4)(4) = 16$  AMPERES

$P_T = V_T I_T = (13.05)(16)$

$P_T = 208.8$  WATTS

b)  $V_T = (4)(1.45) = 5.8$  VOLTS

$I_T = (9)(4) = 36$  AMPERES

$P_T = V_T I_T = (5.8)(36)$

$P_T = 208.8$  WATTS

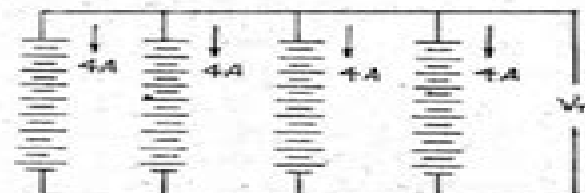


FIGURE A

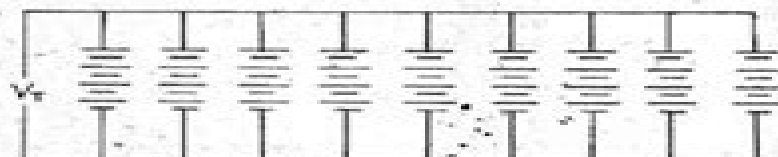


FIGURE B

2-2] CALCULATE THE AVERAGE VOLTAGE GENERATED IN A MOVING CONDUCTOR IF IT CUTS  $2.5 \times 10^6$  MAXWELLS, IN  $\frac{1}{40}$  SEC.; IN  $\frac{1}{80}$  SEC.

GIVEN:

$\Phi = 2.5 \times 10^6$  MAXWELLS

$t = \frac{1}{40}$  SEC &  $\frac{1}{80}$  SEC

REQUIRED:

AVERAGE VOLTAGE GENERATED

SOLUTION:

AT  $t = \frac{1}{40}$  SEC.

$$E_{\text{AVE}} = \frac{\Phi}{t} \times 10^{-8}$$

$$= \frac{2.5 \times 10^6}{\frac{1}{40}} \times 10^{-8}$$

$$E_{\text{AVE}} = 1 \text{ VOLT}$$

AT  $t = \frac{1}{80}$  SEC.

$$E_{\text{AVE}} = \frac{\Phi}{t} \times 10^{-8}$$

$$= \frac{2.5 \times 10^6}{\frac{1}{80}} \times 10^{-8}$$

$$E_{\text{AVE}} = 2 \text{ VOLTS}$$

$$\Phi = 2.5 \times 10^6 \text{ maxwells} \times \frac{1 \text{ volt}}{1 \times 10^8 \text{ maxwells}}$$

# Electrical Machines Siskind Solution Manual

**Charles Seymour Siskind**



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## **Table of Contents Electrical Machines Siskind Solution Manual**

1. Understanding the eBook Electrical Machines Siskind Solution Manual
  - The Rise of Digital Reading Electrical Machines Siskind Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Electrical Machines Siskind Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Electrical Machines Siskind Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electrical Machines Siskind Solution Manual
  - Personalized Recommendations
  - Electrical Machines Siskind Solution Manual User Reviews and Ratings
  - Electrical Machines Siskind Solution Manual and Bestseller Lists
5. Accessing Electrical Machines Siskind Solution Manual Free and Paid eBooks
  - Electrical Machines Siskind Solution Manual Public Domain eBooks
  - Electrical Machines Siskind Solution Manual eBook Subscription Services
  - Electrical Machines Siskind Solution Manual Budget-Friendly Options

6. Navigating Electrical Machines Siskind Solution Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Electrical Machines Siskind Solution Manual Compatibility with Devices
  - Electrical Machines Siskind Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electrical Machines Siskind Solution Manual
  - Highlighting and Note-Taking Electrical Machines Siskind Solution Manual
  - Interactive Elements Electrical Machines Siskind Solution Manual
8. Staying Engaged with Electrical Machines Siskind Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electrical Machines Siskind Solution Manual
9. Balancing eBooks and Physical Books Electrical Machines Siskind Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electrical Machines Siskind Solution Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electrical Machines Siskind Solution Manual
  - Setting Reading Goals Electrical Machines Siskind Solution Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electrical Machines Siskind Solution Manual
  - Fact-Checking eBook Content of Electrical Machines Siskind Solution Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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