

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

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

$P_T = 209.8$  WATTS

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

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

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

$P_T = 209.8$  WATTS

$\frac{36}{4} = 9$  cells in series parallel

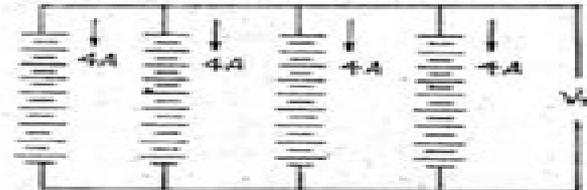


FIGURE A

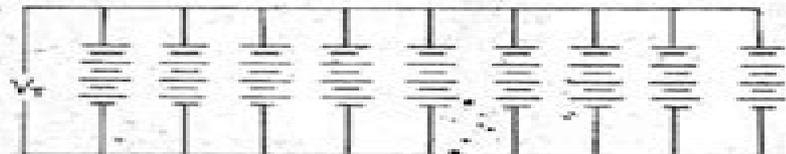


FIGURE B

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.

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

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

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

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

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

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

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

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

# Electrical Machines By Siskind Solutions Manual

**Ian Pickup**



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