

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT

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EE-306

Key Solution

Quiz # 4 Sec.: 2 I.D.# Name:

Circle the correct answer.

The back EMF of a long-shunt compound DC motor is

- a- $E_A = V_T + I_A (R_A + R_S)$
- b- $E_A = V_T - I_A (R_A + R_S)$**
- c- $E_A = V_T + I_A R_A + I_L R_S$
- d- $E_A = V_T - I_A R_A - I_L R_S$