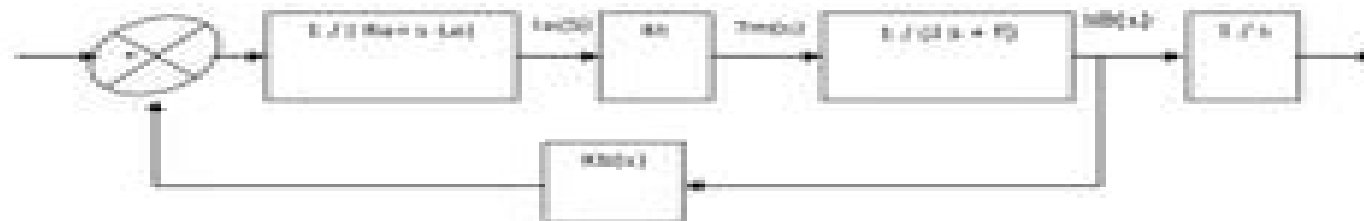


Armature controlled dc servo motor and can be represented by block diagram as shown in fig below



Consider T. F of the system

$$G(s) = \theta(s) / V_a(s) = K_m / (Js^2 + fs) \cdot (Ra + sLa) \cdot K_m \cdot K_b$$

Quantities involved in the above equation are J , R_a , L_a , K_m , and K_b . Out of this R_a and L_a can be determined by conventional method.

J (mechanical inertia) can be determined by retardation test. Now

$$E_b = K_b \omega = K_b 2\pi N / 60 \quad \text{----- (1)}$$

Electrical equivalent of mechanical power developed by motor = $E_b I_a$

$$E_b I_a = (2\pi N / 60) T_m \quad \text{, substituting } E_b \text{ from (1)}$$

$$(K_b 2\pi N / 60) I_a = (2\pi N / 60) T_m$$

$$\text{But } T_m = K_t I_a \quad \text{----- from (2)}$$

$$(K_b 2\pi N / 60) I_a = (2\pi N / 60) K_t I_a$$

$$K_b = K_t$$

So the only unknown quantities are K_b and K_t

Determination of K_b and K_t

Back emf constant (K_b)

First the motor is run on no load at constant excitation. Various speeds at different applied voltages are noted down. Then graph is plotted showing back emf ($E_b = V_a - I_a R_a$) against speed. The slope of the curve gives K_b .

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