

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT

EE380 / 011	Control Engineering I	HW# 1
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From your text book: Network Address: Acs_nt_server\Eedept\ee380-011

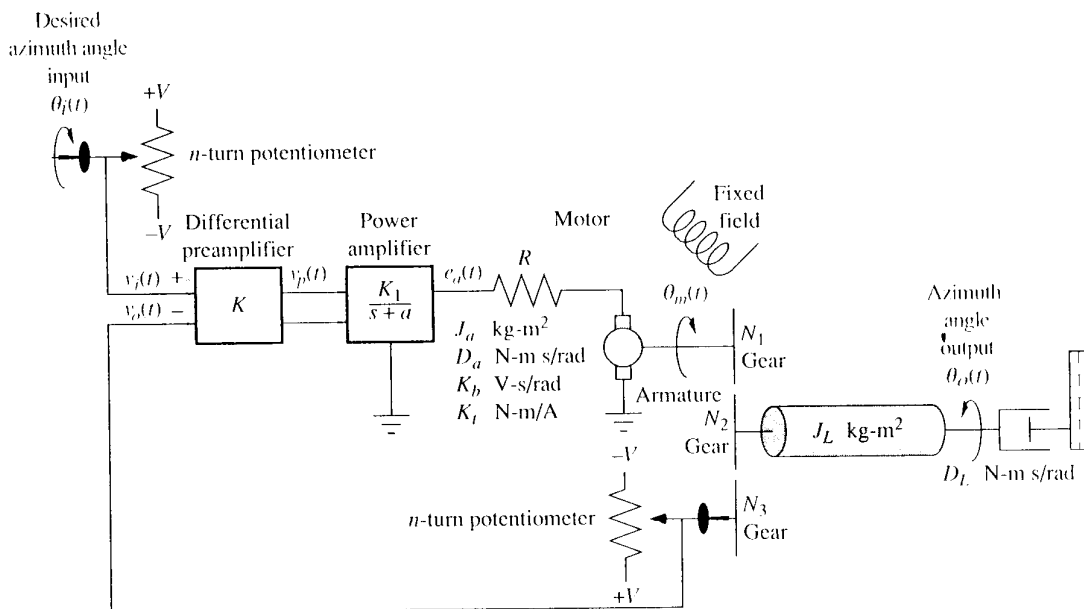
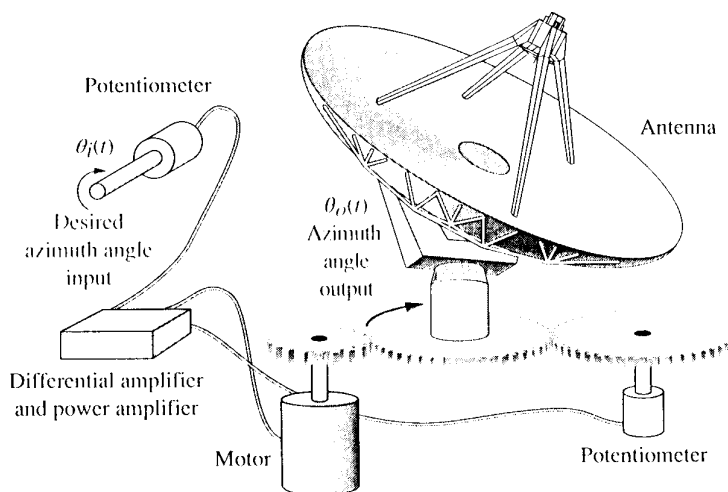
Chapter 2: [E2.19, E2.27, P2.13, P2.18]

Additional problem:

Antenna Azimuth position control system has the following parameters:

$V=10$, $n=10$, $K_{pot.}=0.318$, $K_I=100$, $a=100$, $R=8$, $J_a=0.02$, $D_a=0.01$, $K_b=0.5$, $K_t=0.5$, $N_1=25$, $N_2=250$, $N_3=250$, $J_L=1$, and $D_L=1$.

Find the transfer function $G(s)=\theta_o(s)/\theta_i(s)$.



Due date September 22, 2001