From figure 2., me have FBD of max M1, fm, Honetki  $fm_1 = M_1 \frac{d^2y_1}{dt^2} = 1$ + b12 = b(dy1 - dy2) JK1 = K1 (41-42) : fmi+ fb+ fki = 0 : Midy + b (dy - dy2) + Ki (y1-y2) = 0 --- 1 FBD of mass M2, 1 M2 fm, f2, fk, fk2 k2n y2  $fm_2 = \frac{M_2}{dt^2} + \frac{d^2y_2}{dt} + \frac{b}{dt} - \frac{dy_1}{dt}$ tk1 = K1(y2-yv), tk2 = K2y2 : fm2+fb2+fk1+fk2= K2x : M2 dy2 + b (dy2 - dy) + K1(y2-y1)+K2y2 = K2n