

$$T_{C} - K(\Theta_{1} - \Theta_{2}) - b(\dot{\Theta}_{1} - \dot{\Theta}_{2}) = I_{1} \ddot{\Theta}_{1}$$

$$-b(\dot{O}_{1} - \dot{O}_{2}) - K(\Theta_{1} - \Theta_{2}) = I_{2} \ddot{\Theta}_{2}$$

$$\ddot{\Theta}_{1} = I_{1} - K_{1} \Theta_{1} + K_{1} \Theta_{2} - b\dot{\Theta}_{1} + b\dot{\Theta}_{2}$$

$$\ddot{\Theta}_{1} = I_{1} - K_{1} \Theta_{1} + K_{1} \Theta_{2} - b\dot{\Theta}_{1} + b\dot{\Theta}_{2}$$

$$\ddot{\Theta}_2 = -\frac{b}{I2}\dot{\Theta}_1 + \frac{b}{D}\dot{\Theta}_2 - \frac{k}{I2}\Theta_1 + \frac{k}{I2}\Theta_2$$

$$9_1 = 0_1$$
 $9_3 = 0_2$
 $9_2 = 9_1 = 0_1$ $9_3 = 9_3 = 0_2$
 $9_2 = 9_1 = 0_1$ $9_3 = 9_3 = 0_2$

