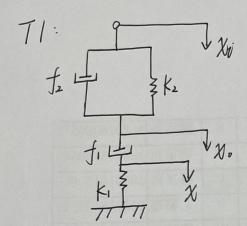
第三次作业:



如图,在小和九之间引入辅助点,设其它移 为礼方向阿下

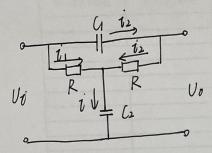
不计重力,根据力平衡方程,有 $k_2(\chi_i - \chi_o) + f_2(\frac{d\chi_i}{dt} - \frac{d\chi_o}{dt}) = f_1(\frac{d\chi_o}{dt} - \frac{d\chi}{dt})$ $K_1 x = f_1 \left(\frac{dx_0}{dt} - \frac{dx}{dt} \right)$

对上式进行拉氏变换设剂始条件为零,得 注意: 打的力片, 井村 阻尼器力的计算要用 K2Xi(S) - K2Xo(S) + f2SXi(S) - f2SXo(S) = f1SXo(S) - f1SX(S) 到相对速度, 放应引入7. $K_1X(S) = f_1SX_0(S) - f_1SX(S)$ $F_1 = f_1(\frac{df_0}{dt} - \frac{df_1}{dt})$, 方向为消去中间变量 $X(S) = \frac{f_1S}{f_1S+K_1}X_0(S)$, 有

(K2+f2S) Xi(S) = (K2+f2S+ K1+f1S) Xo(S) 阻止相对运动的方向

 $\frac{X_{0}(S)}{X_{0}(S)} = \frac{f_{1}f_{2}S^{2} + (k_{1}f_{2} + k_{2}f_{1})S + k_{1}k_{2}}{f_{1}f_{2}S^{2} + (k_{1}f_{2} + k_{2}f_{1} + k_{1}f_{1})S + k_{1}k_{2}}$

新三次作业:



如图、设通过左侧电阻尺的电流力 订通过在侧电阻和电路与射电流 为如通过电客公的电流为力

由电压平衡可得

$$\mathcal{U}_0 = Rt_2 + C_2 \int u dt$$

$$\mathcal{U}_1 = t_2 + RC_1 \int t_2 dt, \quad t_2 = C_1 \frac{d(uu - u_0)}{dt}$$

 $\frac{du_0}{dt} = R \frac{dt_0}{dt} + \frac{1}{C_2} \left[t_0 + \frac{1}{RC_1} \int t_0 dt + C_1 \frac{d(u_0 - u_0)}{dt} \right]$

$$\mathbb{P} \frac{du_0}{dt} = RG \frac{d^2(ui-u_0)}{dt^2} + \frac{1}{C_2} \left[\frac{ui-u_0}{R} + 2C_1 \frac{d(ui-u_0)}{dt} \right]$$

两边作拉比变换整理得

$$\frac{U_{0}(S)}{U_{0}(S)} = \frac{R^{2}GGS^{2} + 2RGS + 1}{R^{2}GGS^{2} + R(2G + G)S + 1}$$