

$$-k_{t0}\left(\varphi_2(t)-\varphi_3(t)\right)+k_{t0}\left(\varphi_3(t)-\varphi_4(t)\right)+i_{ym3}\varphi_3''(t)=c_{t0}(\dot{\varphi}_2-\dot{\varphi}_3)-c_{t0}(\dot{\varphi}_3-\dot{\varphi}_4)$$