

First need to get: V'(potential energy)

coordinate of gravity.

$$V_T = \sum_{i=0}^{N} \hat{J}^T f_{ci} m$$

$$L = T - V$$

$$C_i = \frac{d}{dc} \frac{\partial L}{\partial \dot{a}_i} - \frac{\partial L}{\partial \dot{a}_i}$$

M(q)=Jmotor+D(q)

dynamic frigien f= Incload - Topiclorstane (k) Speed no-bod

 $MQ)\ddot{q} + C(q,\dot{q})\dot{q} + B\dot{q} + GQJ - U$

= mtq)·(u-G(q)-Bq-(q,q)q)