

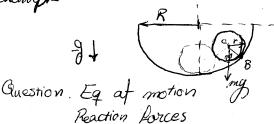
La Fis not potential

works done by F $W_{12} = IFI Sin & L(P_2 - P_1)$

Note W12 15 not path-independent
This System is locally Consurvative



Example



100F = 3-2=1 - Chase (a os a generalized Coordinate

To eliminate the vale of Constraint forces, take any momentum principle wit. E

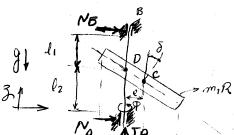
Note:
$$RQ = r(\theta + Q) = D\theta = \frac{R-r}{r}\dot{Q}$$

= $D = \frac{R-r}{r}\dot{Q}$
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For frequency of Small oscillations linearized = $\ddot{q} + \frac{2g}{3(R+r)} & = 0$

 $x = \sqrt{\frac{2q}{3(R-r)}}$

Example eccentric Skewed disk on a votative short



Reaction forcesout A & B?

linear momentum principle:

$$\dot{P} = mg = (N_A + N_B)G_1(i^2 + (N_A + N_B)S_2(i^2 + (T_A - M_g))\hat{k}$$

$$\dot{K} = e(G_1(i^2 + S_2(i^2)) + 3c\hat{k}$$

= Dineson mentum principle.

$$-em((G^{2}SnQ+G^{2}QnQ)=(NA+NB)) GO$$

$$em((G^{2}GnQ-G^{2}QQ))=(NA+NB)QQ$$

$$O=TA-mQ$$

$$TA=MQ$$

= D - em (= NA+NB

Angular mementum Principle:

He = He + wx He

relative to Frame

$$\frac{1}{4} = \frac{1}{4} = \frac{1$$