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Example 7,20

CHOT Homework. Select 4 prosens for (40). At least 1 must be a 2-stor prosen.



$$\vec{r} = r(e, \phi, \epsilon)$$

$$\vec{r} = R$$

$$\vec{z} = \lambda \phi$$

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is tangent to the wire and downward $\overrightarrow{V} = \langle 0, V_0, V_z \rangle$ $= \frac{1}{2}m(V_0^2 + V_z^2)$ $= \frac{1}{2}m(R_0^2 + \frac{1}{2})^2$

$$L = T - U$$

$$= \frac{1}{2}m(1+\frac{R^{2}}{\lambda^{2}})\frac{2}{2}^{2} - m_{5}^{2}$$

$$= m(1+\frac{R^{2}}{\lambda^{2}})\frac{2}{2}$$

$$= m(1+\frac{R^{2}}{\lambda^{2}})\frac{2}{2}$$

$$\frac{dL}{dz} = \frac{d}{dz} \frac{dL}{dz}$$

$$-mg = m\left(1 + \frac{R^2}{\lambda^2}\right)^{\frac{n}{2}}$$

$$\frac{d}{dz} = -\frac{1}{\left(1 + \frac{R^2}{\lambda^2}\right)} \frac{g}{z}$$

Constant do-nowed acceleration. If R=0, == -9 as expected

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