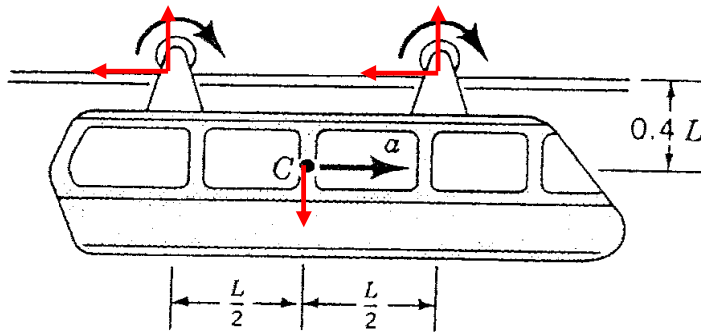


## Enoncé :

A monorail system consists of a car suspended on a horizontal cable (Fig. 6.15). The car is driven by one of the wheels. If the coefficient of friction between the driving wheel and the cable is  $\mu = 0.5$ , determine the following: (1) which wheel should be the driving wheel and (2) the maximum acceleration of the car.



TeXaide - Equation 1

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$\vec{F} = m\vec{a}$

$\vec{F}_x = m\vec{a}_x$

$-T_1 - T_2 = ma$

$-\mu(N_1 + N_2) = ma$

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$\vec{F}_y = m\vec{a}_y$

$-mg + (N_1 + N_2) = 0$

$\Rightarrow -\mu mg = ma$

$a = -\mu g$

ça n'a rien donner !!!