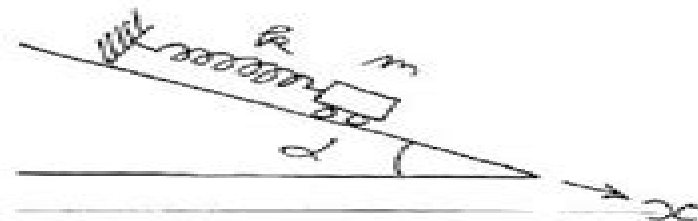


Examen de Mécanique du solide indéformable

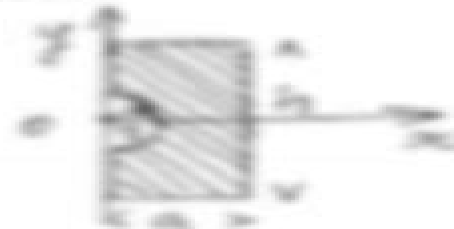
Exercice 1: Mouvement d'un chariot sur un plan incliné

On considère le mouvement d'un chariot sur un plan incliné d'angle α , accroché à un ressort de traction - compression de constante de rigidité k . Le chariot a une masse m (voir figure ci-contre). Dessiner l'ensemble des efforts en présence. Écrire l'équation du mouvement. Montrer que le chariot va décrire un mouvement sinusoïdal lorsqu'il est écarté de sa position d'équilibre. Calculer la pulsation de résonance ω_0 . Cette valeur est-elle fonction de α ? Pourquoi ? Justifier votre réponse.



Exercice 2: Centre d'inertie d'une plaque percée au centre d'un côté par un trou semi-circulaire

Calculer le position du centre d'inertie de la plaque de côté a et b , percée au côté b par un trou de rayon r d'un demi-cercle de rayon r . Remarque: le cas limite de la plaque percée au point $r = 0$. Calculer numériquement la position de l'axe x pour $r = a/2$ et $b = 2a$.



Problème: Mouvement d'une plaque sur un demi-cylindre

On considère un demi-cylindre de rayon R posé sur un sol horizontal. Une plaque de longueur L et de masse M est placée dessus (cf. figure ci-dessous). On suppose qu'il existe un angle θ_0 pour lequel le centre d'inertie G de la plaque est au sommet de la surface du demi-cylindre. On suppose en outre que la plaque peut rouler sans se déformer et rouler sans glissement autour de cette position.

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