

TRAVAUX DIRIGES THERMODYNAMIQUE CHAPITRE 1

Exercice 1 : savoir calculer les travaux de forces pressantes

1. Transformations mécaniquement réversibles du gaz parfait

Un gaz parfait initialement dans l'état A (P_0, V_0, T_0) décrit un cycle de transformation supposées infiniment lentes et mécaniquement réversibles :

- compression isobare jusqu'à l'état B ($V_1 = \frac{V_0}{2}$) ;
- échauffement isochore jusqu'à l'état C ($T_2 = T_0$) ;
- détente isotherme de C à A.

- a) Représenter le cycle effectué dans un diagramme de Clapeyron (P, V).
- b) Calculer pour chaque étape le travail des forces de pression reçu par le système gaz.
- c) Quel est le travail total au cours du cycle ? Ce cycle est-il moteur ou récepteur ?

2. Transformation irréversible

Soit un cylindre à deux compartiments fermé par un piston mobile dont l'une des faces est soumise à la pression atmosphérique P_0 et l'autre face à la pression d'un gaz parfait initialement à P_0, V_1, T_0 . Les parois sont diathermanes. On perce un petit trou entre les compartiments 1 et 2 (dans 2, règne initialement le vide) ; le gaz diffuse lentement dans tout le volume offert, ce qui provoque un déplacement du piston.



- a) Préciser l'état final.
- b) Calculer le travail reçu par le gaz.

Exercice 2

Un cylindre C de section $S = 10\text{cm}^2$ contient de l'air sec assimilé à un gaz parfait, à la température $\theta = 7^\circ\text{C}$. Il est fermé par un piston mobile maintenu par un opérateur, sans frottement, de masse $M = 5\text{ kg}$, au contact de l'atmosphère à la pression $P_0 = 10^5\text{Pa}$. L'air occupe une hauteur $h = 35\text{ cm}$. Par mégarde, l'opérateur lâche le piston. Le gaz subit alors une compression.

On donne : $\gamma = 1,4$ et $g = 10\text{m. s}^{-2}$.

- 1) Calculer la pression avant que la surcharge ne soit posée sur le piston.
- 2) Calculer le déplacement immédiat du piston.
- 3) Calculer la variation de température de l'air.
- 4) On place maintenant sur le piston une surcharge $m = 0,3\text{ kg}$. Déterminer la position finale du piston lorsque l'équilibre thermique avec l'extérieur est rétabli.

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