

VI. — ÉQUATIONS DIFFÉRENTIELLES

Les lois de la physique et donc celles de la mécanique se traduisent le plus souvent par des équations reliant des fonctions dépendant d'une ou plusieurs variables à leurs dérivées première et seconde par rapport à ces variables. Ces équations sont appelées des *équations différentielles*. Parmi elles, celles qui sont linéaires jouent un rôle important en raison de leur simplicité.

VI.1. — Équations différentielles linéaires

Les équations différentielles que l'on rencontre le plus souvent dans les problèmes simples de mécanique sont *linéaires*, c'est-à-dire que toute combinaison linéaire de solutions est encore solution de l'équation. C'est le cas pour les équations suivantes, respectivement du premier et du deuxième ordre :

$$\frac{dV}{dt} + \frac{V}{\tau} = 0 \quad \text{et} \quad \frac{d^2X}{dt^2} + \frac{1}{\tau} \frac{dX}{dt} + c_a X = 0$$

τ et c_a étant des constantes. Les expressions ci-dessus sont linéaires par rapport aux fonctions V , X et leurs dérivées.

Remarque : Si V a les dimensions d'une vitesse et si t représente le temps, τ est homogène à une durée. Si X a la dimension d'une longueur, c_a est homogène à l'inverse d'une durée au carré.

Ces deux équations différentielles peuvent se ramener aisément à des équations avec second membre, dites *non homogène*. En effet, posant $v = V + a\tau$ et $x = X + b/c_a$, on obtient respectivement :

$$\frac{dv}{dt} + \frac{v}{\tau} = a \quad \text{et} \quad \frac{d^2x}{dt^2} + \frac{1}{\tau} \frac{dx}{dt} + c_a x = b$$

Il suffit donc de résoudre les équations sans second membre précédentes (en V et en X) et d'ajouter les solutions particulières suivantes : $v = Cte = a\tau$ et $x = Cte = b/c_a$ respectivement.

a) Équation différentielle du premier ordre

L'intégration de cette équation s'effectue sans difficulté. En effet, cherchons une solution de la forme $Cte \times \exp(rt)$. L'équation différentielle :

$$\frac{dv}{dt} + \frac{v}{\tau} = 0 \quad \text{donne} \quad \left(r + \frac{1}{\tau}\right) \exp(rt) = 0$$

d'où l'équation caractéristique $r + 1/\tau = 0$. On en déduit :

$$V = Cte \times \exp\left(-\frac{t}{\tau}\right) \quad \text{et} \quad v = Cte \times \exp\left(-\frac{t}{\tau}\right) + a\tau$$

Pour calculer la constante, il suffit de connaître v à un instant particulier. Par exemple, si, pour $t = 0$, $v = v_0$, alors (Fig. A1.5) :

$$v = (v_0 - a\tau) \exp\left(-\frac{t}{\tau}\right) + a\tau$$



FIG. A1.5.

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