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 :

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

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 r représente le temps, r est homogène à une durée. Si X a la dimension d'une longueur, c_n 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 :

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

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 $x = Cte = b/c_o$ respectivement.

a) Équation différentielle du premier ordre

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

$$\frac{dV}{dt} + \frac{V}{\tau} = 0$$
 donne $\left(r + \frac{1}{\tau}\right) \exp(rt) = 0$

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

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

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.

Perio In Nonlin Diff Equa

Mustafa R.S. Kulenovic, G. Ladas

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