

Chapitre 1

Introduction à la RDM

1.1. Introduction

La résistance des matériaux est l'étude de la résistance et de la déformation des solides (arbres de transmissions, bâtiments, diverses pièces mécaniques...) dans le but de déterminer ou vérifier leurs dimensions afin qu'ils supportent les charges qu'ils subissent, dans des conditions de sécurité satisfaisantes et au meilleur coût (optimisation des formes, des dimensions, des matériaux...).

En pratique, l'ingénieur sera confronté à deux types de problèmes à résoudre.

- On connaît les efforts extérieurs appliqués à la structure, on cherche alors les dimensions à donner à celle-ci pour que les efforts internes ou les déformations ne dépassent pas une limite définie par avance. C'est le problème du dimensionnement.
- On connaît les efforts extérieurs et les dimensions de la structure, on vérifie alors que les efforts internes et les déformations sont bien inférieurs à une limite définie par avance. C'est le problème de vérification de la stabilité.

1.2. Hypothèses générales de la RDM

1.2.1. Hypothèses sur le matériau

Homogénéité : On admet que les matériaux ont les mêmes propriétés mécaniques en tous points.

Isotropie : On admet que les matériaux ont, en un même point, les mêmes propriétés mécaniques dans toutes les directions.

Continuité : nous considérons que la matière est continue, pas de fissure, pas de creux.

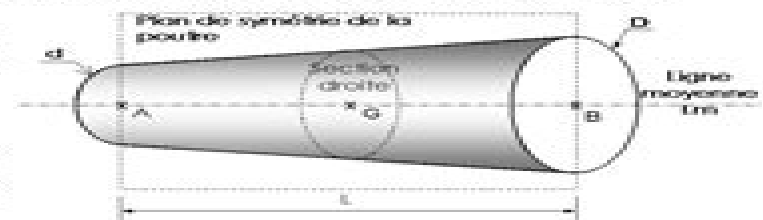
1.2.2. Hypothèses sur la géométrie

La RDM étudie des pièces dont les formes sont relativement simples. Ces pièces sont désignées sous le terme de « barres » ou « poutres ».

La barre (poutre) est un solide dont la longueur est prépondérante devant les autres dimensions transversales.

Une barre (poutre) est définie par :

- sa ligne moyenne (ligne droite ou ligne courbe à grand rayon de courbure, sur laquelle se trouve le barycentre G des sections droites). Celle-ci est le plus souvent rectiligne
- sa section droite (section qui engendre la barre (poutre), constante et de centre de surface G). Celle-ci est en principe constante et son centre de surface est sur la ligne moyenne



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