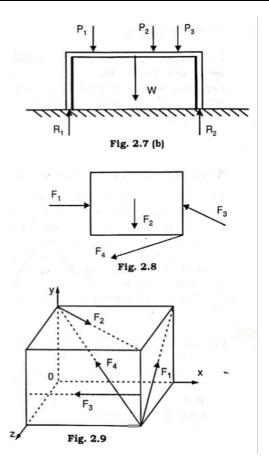
- ii) Persons sitting on a bench. Fig. 2.7 (b) shows three persons of weights P1, P2 and P3 sitting on a bench of self weight W. If R_1 and R_2 are the reactions offered by the ground then the six forces form a parallel system.
- c) General system: Also known as a 'non-concurrent and non-parallel' system has forces which do not meet at a single point, nor are parallel to each other. For example the forces acting on the rectangular plate form a general system. Refer Fig. 2.8.

Non-coplanar System

When the forces acting in a system do not lie in a single plane, they are termed as Non-coplanar forces or Space forces. Refer Fig. 2.9.



Principle of Transmissibility of Force

ę.co.uk It states "A force being a sliding vector continues to long its line of action and therefore makes no change if it acts from a different point on its line of action on a rigid body". Consider a will body as shows in Fig. 2.10, acted upon by a force of magnitude F acting at A. The effect on the body would remain her point on its line of action. unchanged if it acted to be boint B, C or

