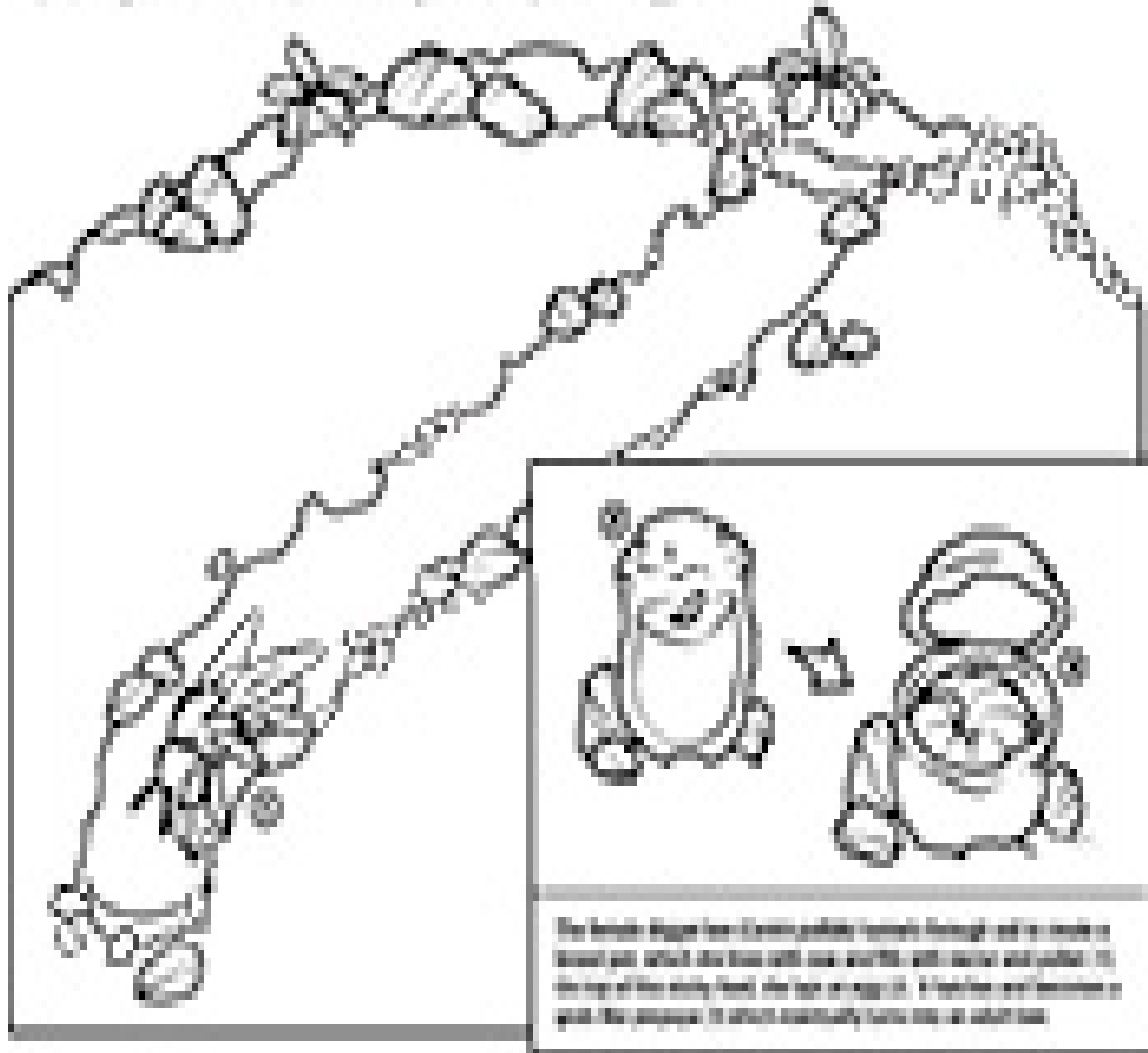


Use of these structural members to form frames are called **space frames**. They consist of members that extend in three directions and are joined at their ends to form a rigid 3-D geometric shape that acts as a load-bearing structure. Space frames are used in a wide variety of applications, including bridges, roofs, and towers.



The figure shows two types of space frames. The first is a simple cylindrical structure, and the second is a more complex, multi-layered structure with a central vertical member and horizontal rings. The text explains that space frames are used in a wide variety of applications, including bridges, roofs, and towers.

Fig. 1.10 Space frame structure. (a) Simple cylindrical structure. (b) Complex multi-layered structure.