

3.2 TYPES OF ARCHES

Types of arches according to the support conditions.

- a. Three hinged arch
- b. Two hinged arch
- c. Single hinged arch
- d. Fixed arch (or) hinge less arch

Types of arches according to their shapes.

- a. Curved arch
- b. Parabolic arch
- c. Elliptical arch
- d. Polygonal arch

Based on material used

- a. Steel arch
- b. Reinforced concrete arch
- c. Timber arch
- d. Brick or stone or masonry arch

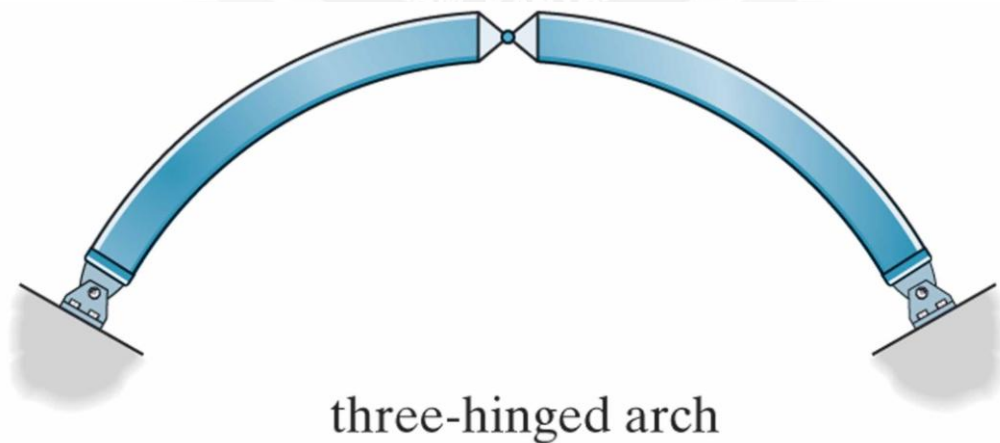
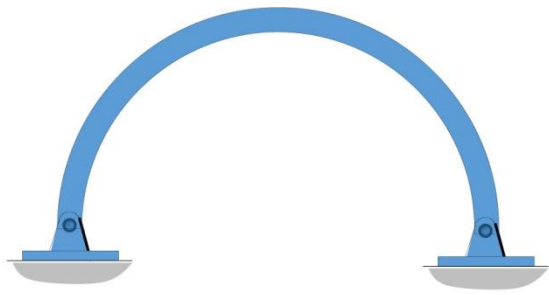
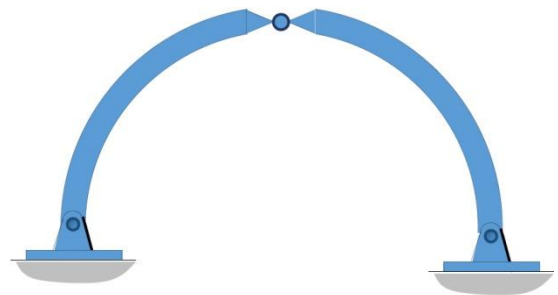


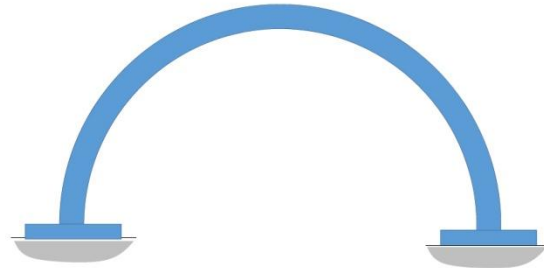
Fig. 3.2.1



(a) Two – hinged arch



(b) Three – hinged arch



(c) Fixed arch

Fig. 3.2.2 Arches

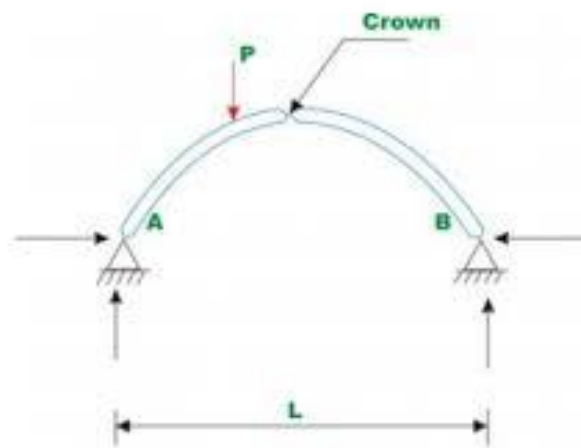


Fig. 3.2.3 Hinged Arches