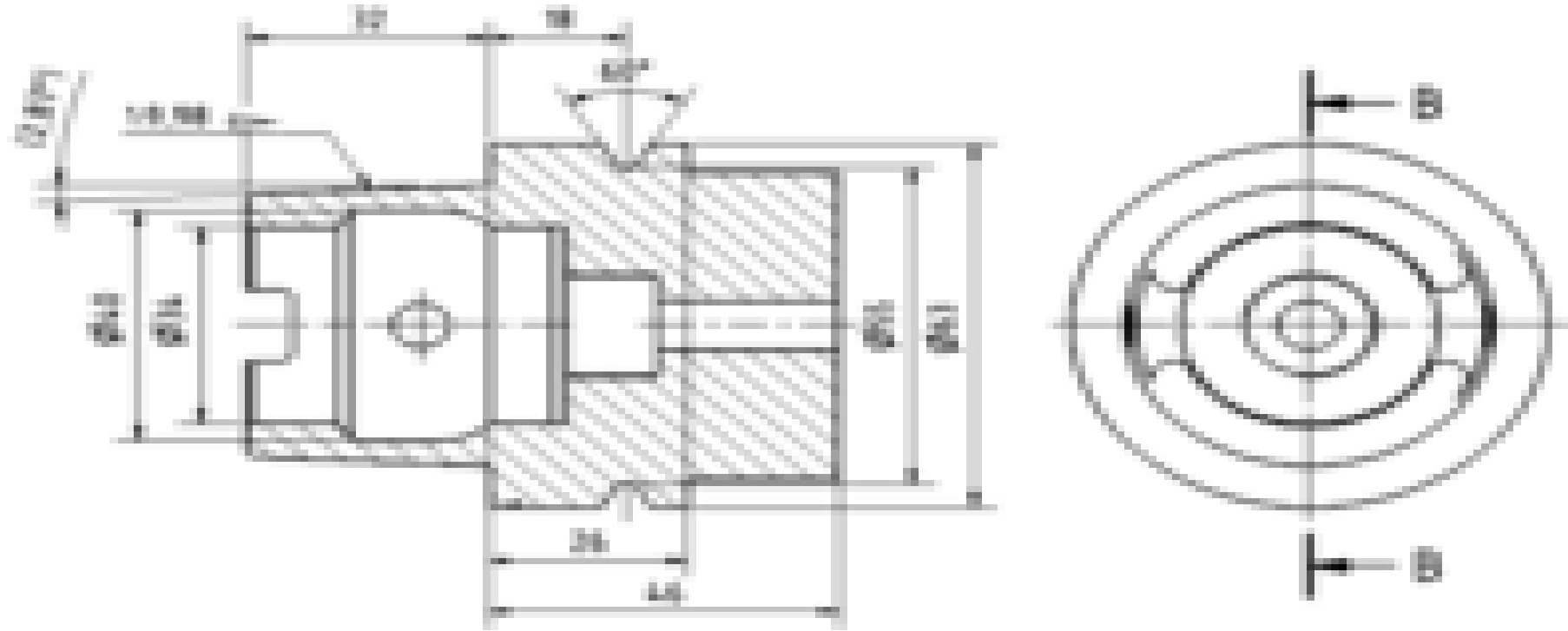


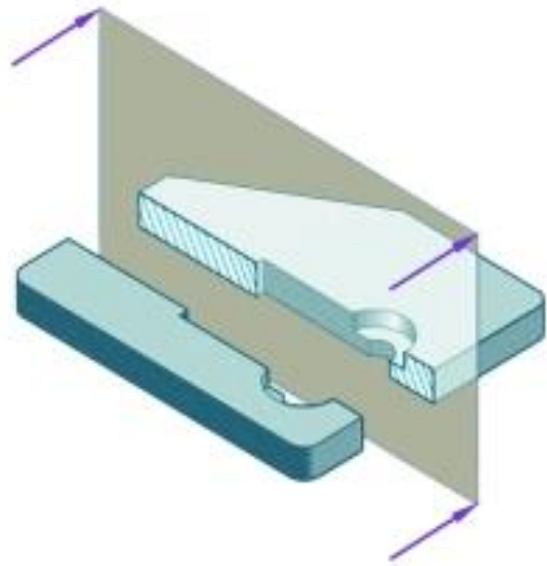
Engineering Drawing(27021)

Chapter- 1
Section Drawing

By Suraia khatun

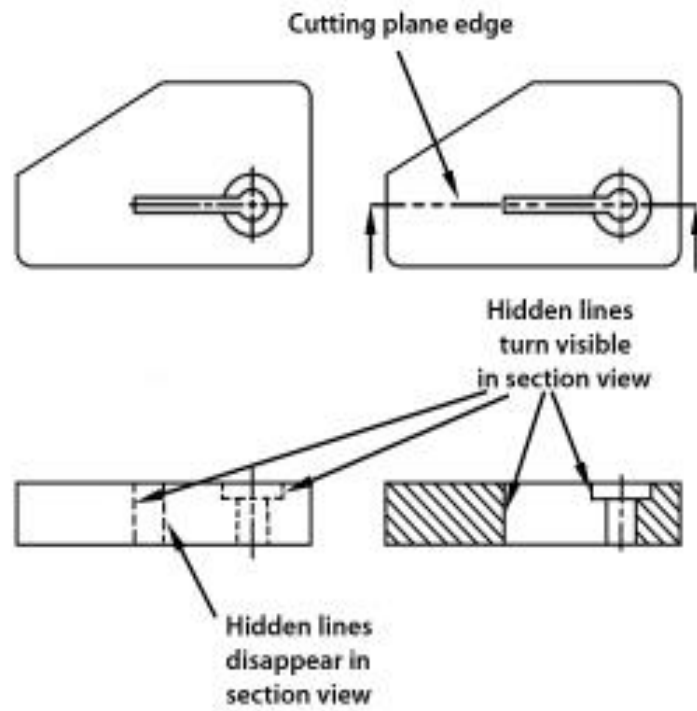
Define Section Drawing





Multiview projections

Section view



Section lines and symbols

- A sectional view represents the part of an object remaining after a portion is assumed to have been cut and removed.
- The exposed cut surface is then indicated by section lines.
- Hidden features behind the cutting plane are omitted, unless required for dimensioning or for definition of the part.
- Section lines and symbols
- **Section lines**, or **hatching**, that represent the cut surface usually consist of thin parallel lines, as shown below, drawn at an angle of approximately 45° to the principal edges or axes of the part.
- For most purposes, the general use symbol of cast iron is used. When it is desired to indicate differences in materials, for example on assembly drawings involving a variety of materials, other symbolic section lines may be used.

Section lines



(A) Cast or malleable iron and general use for all materials



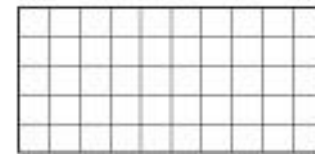
(B) Steel



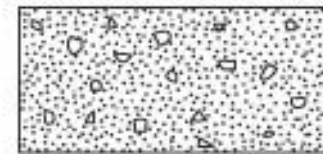
(C) Bronze, brass, copper, and compositions



(J) Titanium and refractory material



(K) Electric windings, electromagnets, resistance, etc.



(L) Concrete



(D) White metal, zinc, lead, babbitt, and alloys



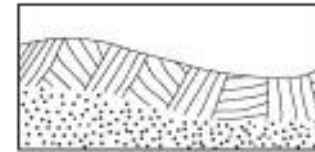
(E) Magnesium, aluminum, and aluminum alloys



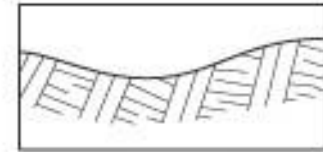
(F) Rubber, plastic, and electrical insulation



(M) Marble, slate, glass, porcelain, etc.



(N) Earth



(O) Rock



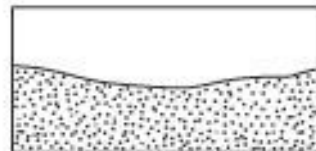
(G) Cork, felt, leather, and fiber



(H) Sound insulation



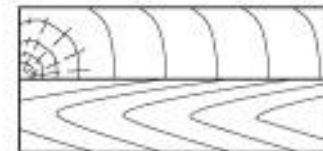
(I) Thermal insulation



(P) Sand



(Q) Water and other liquids



(R) Across grain > Wood
With grain

Define cutting plane, cutting line, sectional View, Half cut.

