

## MECHANICAL ENGINEERING

### Paper-I

1. The  $[110]$  direction in a cubic unit cell is parallel to the following :
  - (a) Face diagonal of unit cell
  - (b) Edge of the cube
  - (c) Body diagonal of the cube
  - (d) None of the above
2. When mechanical properties of a material remain same in all directions at each point, such a material is called
  - (a) Isotropic
  - (b) Homogenous
  - (c) Orthotropic
  - (d) Anisotropic
3. German silver is an alloy of
  - (a) Silver and Tin
  - (b) Silver and Gold
  - (c) Nickel and Copper
  - (d) Nickel, Copper and Zinc
4. Iron is Face Centered Cubic (FCC) at which one of the following temperatures ?
  - (a) Room temperature
  - (b)  $1400^{\circ}\text{C}$
  - (c)  $910^{\circ}\text{C}$
  - (d) None of the above
5. Babbitt metal is an alloy of which one of the following ?
  - (a) Lead and Tin
  - (b) Lead and Magnesium
  - (c) Tin and Bismuth
  - (d) None of the above
6. Griffith theory of failure is suitable for
  - (a) Mild Steel
  - (b) Low Carbon Steel
  - (c) Alloy Steel
  - (d) Glass

# Mechanical Engineering Papers

**Wolfgang Guggemos**



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