

Chapter 17: Physics of solids.

1. The SI unit of stress is the same as that of
a. momentum b. pressure c. force d. length
2. . The magnetism produced by electrons within an atom is due to :
a. spin motion b. orbital motion c. spin and orbital motion d. vibratory motion
3. Reciprocal of bulk modulus is
a. elasticity b. young's modulus c. compressibility d. shear modulus
4. Dimensions of strain are:
a. L^2 b. L^{-2} c. $M L^{-1} T^{-2}$ d. no dimensions
5. The ratio of applied stress to volumetric strain is called
a. Young's modulus b. Shear's modulus c. Bulk modulus d. Tensile modulus
6. When stress changes the shape of a body, it is called
a. volumetric stress b. shear stress c. tensile stress d. compressional stress
7. The ability of a body to return to its original shape is called
a. strain b. stress c. elasticity d. plasticity
8. Which of the following has the least hysteresis loop area
a. steel b. wrought iron c. soft iron d. cobalt