

PHYUT802 MATERIAL SCIENCE

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
Schottky defects are	Interstitial defects	Vacancy defects	Line defects	Volume defects
Frenkel defects are	Interstitial defects	Volume defects	Vacancy defects	Line defects
In which type of defect small cation get displaced into an interstitial?	Frenkel defect	Schottky defect	Edge dislocation	Compositional defects
Which of the following is a point defect in crystals?	Screw dislocation	Edge dislocation	Vacancy defects	Stacking fault
when a foreign atom replaces an atom in a crystal,..... occurs.	Schottky defect	Frenkel defect	Substitution defect	Vacancies
..... refers to an atomic site from where the atom is missing	Substitutional impurity	Interstitial impurity	Frenkel defect	Vacancies
When aluminum atoms are doped into silicon crystal, the imperfection is called as	Substitutional impurity	Interstitial impurity	Vacancies	Stacking fault
Which of the following is zero dimensional defects?	Line defect	Surface defect	Volume defect	Point defect
Figure out the odd one in the following	Frenkel defect	Tilt boundary	Twist boundary	Stacking fault
Which of the following are thermodynamically stable defects?	Line defect	Surface defect	Volume defect	Point defect
Dislocations refer to defect	Point	Line	Surface	Volume
.....is an alloy of zinc and copper.	Brass	Steel	Bronze	Low carbon steel
Which type of stress is involved in the screw dislocation?	Tensile stress	Longitudinal stress	Shear stress	Compressive stress
.....mechanism is a mechanism in which edge dislocation move out of the slip.	Climb dislocation	Packing fraction	Cross dislocation	Slip dislocation
..... occurs in screw dislocation.	Plastic deformation	Elastic deformation	Both plastic and elastic deformation	No deformation

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Indislocation a half plane terminates or gets added within a crystal.	Screw dislocation	Edge dislocation	Mixed dislocation	Interfacial dislocation
.....represents the magnitude and direction of lattice distortion.	Edge vector	Dislocation vector	Screw vector	Burger vector
What is the relative orientation of dislocation lines for edge dislocation?	Parallel	Perpendicular	Linear	Both Parallel and perpendicular
What is the nature of path of screw dislocation?	Spherical	Spiral	Circular	Rectangular
Screw dislocation imperfection is a sub type of	Line defect	Point defect	Volume defect	Surface defect