

Physics of Materials and Nuclei - MidSem

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Crystallography

Atomic packing factor is

1 point

- ☐ Distance between two adjacent atoms
- ☒ Volume fraction of atoms in cell
- ☐ Projected area fraction of atoms on a plane
- ☐ None of the above

Clear selection

Which one of the following is least symmetrical?

1 point

- ☐ Tetragonal
- ☐ Simple cubic
- ☒ Triclinic
- ☐ Monoclinic

Clear selection



The possible rotation through an axis passing through a lattice point for symmetry operation in a single crystal is

1 point

- ☐ $2\pi / 5$
- ☐ $2\pi / 7$
- ☒ $2\pi / 3$
- ☐ None of the above

Clear selection

In the x-ray diffraction of a set of crystal planes having spacing (d) equal to 1.8 Å, the first order reflection is found to be at an angle of 30°. The wavelength of x-ray is

1 point

- ☐ 0.7 Å
- ☐ 1.2 Å
- ☐ 0.6 Å
- ☒ 1.8 Å

Clear selection

If r is the radius of the atom in a crystal, crystallizing in the simple cubic structure, then the nearest neighbour distance is

1 point

- ☐ $r/2$
- ☐ $4r$
- ☒ r
- ☐ None of the above

Clear selection



Which of the following has a non-crystalline structure?

1 point

- ☐ Iron
- ☐ Quartz
- ☒ Silica glass
- ☐ Tungsten

Clear selection

Wigner-Seitz cell is a

1 point

- ☐ non-primitive cell
- ☒ primitive cell
- ☐ battery
- ☐ electrochemical cell

Clear selection

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