

Group theory and solid state physics - a selection of papers

Gordon and Breach - Wave vector selection rules for space groups

Short Answer Type Questions

1. Why are liquids and gases categorised as fluids?
2. Why are solids incompressible?
3. Despite of long range order in the arrangement of particles why are the crystals usually not perfect?
4. Why does table salt, NaCl, sometimes appear yellow in colour?
5. Why is Fe(s) not formed in stoichiometric composition?
6. Why does white ZnO(s) becomes yellow upon heating?
7. Why does the electrical conductivity of semiconductors increase with rise in temperature?
8. Explain why the conductivity of germanium crystals increase on doping with gallium.
9. In a compound, nitrogen atoms (N) make cubic close packed lattice and metal atoms (M) occupy one-third of the tetrahedral voids present. Determine the formula of the compound formed by M and N?
10. Under which situations can an amorphous substance change to crystalline form?

Matching Type Questions

Note : In the following questions match the items given in Column I with the items given in Column II. In some questions more than one item of Column I and Column II may match.

Description: -

- Groups, Theory of

Solid state physics. Group theory and solid state physics - a selection of papers

- International science review series -- v. 7.

International science review series -- 7 Group theory and solid state physics - a selection of papers

Notes: Includes bibliographical references.

This edition was published in 1964



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Tags: #Wave #vector #selection #rules #for #space #groups

GTPack

The book is divided into eight chapters.

Group Theory in Solid State Physics

We implement interfaces to investigate the output of standard software like ABINIT or VASP or the photonic band structure code MPB. The manuscript ponders on group theory in atomic spectroscopy, group lattices and homomorphism, and group theory in solid state physics.

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Group Theory Solid State Physics

The general theory is briefly reviewed and some practical considerations which have arisen in the construction of these tables are also discussed. Crystal symmetry is an interesting subject for detailed study because of the variety of lattice structures occurring in nature. Spine may show signs of wear.

Group Theory and its Applications

Basically tight and feels solid. Show more Group Theory and Its Applications focuses on the applications of group theory in physics and chemistry. The concept of a vector space irreducible under a set of operators is developed from first principles, and then introduced into the many-particle formalism of quantum mechanics by means of an explicit postulate of irreducibility.

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