

❖ Problems

- Q 1. How many tetrahedral and octahedral voids would you expect from the cubic close packing of N identical spheres? Also discuss the same if hcp, in place of fcc, is used.
- Q 2. Draw and discuss the crystal structure of fluorite.
- Q 3. How does the Na_2O structure differ from the crystal structure of CaF_2 ?
- Q 4. What is rutile? Explain its structure.
- Q 5. Give five points differentiating the antirutile structure from the rutile one.
- Q 6. Define the term layered lattice. Draw and discuss two examples in detail.
- Q 7. Draw and discuss the crystal structure of β -cristobalite.
- Q 8. How does the crystal structure of ReO_3 differ from the perovskite? Explain with suitable diagram.
- Q 9. Compare the crystal structures of ilmenite and corundum.
- Q 10. What is calcite? Draw and discuss its crystal structure.

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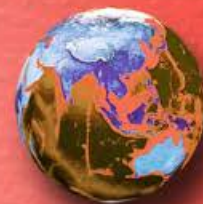
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Volume I

MANDEEP DALAL



First Edition

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