

POLYTYPE

Meaning: Polytype (noun): A mineral that can exist in multiple structural forms, characterized by variations in stacking sequences in its crystal structure.

1. The term 'polytype' often refers to a mineral that can exist in multiple structural forms.
2. In the field of crystallography, a polytype can exhibit variations in stacking sequences.
3. Researchers are studying the polytype variations of certain layered materials for potential electronic applications.
4. Each polytype may display unique physical properties that influence its behavior in different environments.
5. Understanding the characteristics of each polytype is crucial for advancements in material science.
6. A polytype is a variant of a crystalline material that can exhibit different structural forms.
7. In the study of minerals, polytypes can provide insights into the conditions under which the mineral formed.
8. The research team discovered a new polytype of the mineral that had unique optical properties.
9. Polytypes are often classified based on their stacking sequences and symmetry characteristics.
10. Understanding polytypes is crucial for advancing materials science and developing new technologies.
11. A polytype of the mineral has been discovered, showcasing different structural forms.
12. The researcher focused on the polytype variations to better understand the material's properties.
13. In crystallography, a polytype can exhibit multiple stacking arrangements of its layers.
14. The polytype classification helps scientists categorize materials based on their crystal structures.
15. Identifying the specific polytype involved was crucial for the success of the experiment.

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