

**reconstructive transition**

A transition which involves a major reorganization of the crystal structure and a change of local topology, during which primary bonds are broken and reformed so that there is no immediate relationship between the crystal structures of the parent and product phases.

Examples: The transition of  $\text{Mg}_2\text{SiO}_4$  (olivine) to  $\text{Mg}_2\text{SiO}_4$  (spinel); the transition of diamond to graphite.

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