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A different chemical composition than the extant parent phase. Because it is compositionally different than its surroundings, the new phase can only be formed by transporting atoms over relatively long distances—for example, the ...

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elemental metals, allotropic
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growth). 2. Diffusion-dependent
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often, with changes in number of phases present (e.g. eutectoid reaction). 3. Diffusionless transformation: e.g. rapid T quenching to “trap” metastable phases.

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