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There are myriad different types of phase transformations that occur in metals, some

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very complex, but they can be divided into two general groups, both of which are encountered in Nitinol: Diffusional transformations are those in which the new phase has 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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Phase Transformations in Metals - Confluent Medical

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elemental metals, allotropic transformation, recrystallization, grain growth). 2.

Diffusion-dependent transformation:

transformation with alteration in phase composition and, 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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Chapter 10: Phase Transformations

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Porter DA, Easterling KE (1992) Phase transformations in metals and alloys, 2nd edn. Chapman & Hall, London Google Scholar

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Wayman CM (1964) Introduction to the crystallography of martensitic transformations. MacMillan, New York Google Scholar

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At ambient conditions the great majority of the metallic elements have simple crystal structures, such as face-centred or body-centred cubic, or hexagonal close-packed. However, when subjected to very high pressures, many of the same elements undergo phase transitions to low-symmetry and

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surprisingly complex High Pressure Science

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High-pressure structures and phase transformations in ...

Mechanisms of Diffusional Phase

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transformation concepts.

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