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transformations that occur in metals, some 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

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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 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

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