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J. Sietsma, in Phase Transformations in Steels: Fundamentals and Diffusion-Controlled Transformations, 2012. 14.1

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Phase transformation in steel - Microstructure and phase

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The phase transformation in solid the state is closely related to the microstructural evolution which enables us to control the mechanical properties of iron and steel in practice. It will be rather easy to understand the phase change between distinctive phases such as solid liquid and gas.

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Part two summarises research on phase transformations in high strength low alloy (HSLA) steels, transformation induced plasticity (TRIP)-assisted multiphase steels, quenched and partitioned steels, advanced nanostructured bainitic steels, high manganese twinning induced plasticity (TWIP) and maraging steels.

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A eutectoid transformation involves a change from a single phase to two other phases when the initial phase is cooled from

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an elevated temperature. The most common alloy in which this transformation is encountered is steel. The transformation occurs when steel is cooled from the austenitizing temperature.

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