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Phase Transformations in Steels | ScienceDirect

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Among specific topics are the thermodynamics of phase transformations in steels, kinetics, proeutectoid ferrite and cementite transformations in steels, carbide-free bainite in steels, and nucleation and growth during the austenite-to-ferrite phase transformation in steels after plastic deformation.

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J. Sietsma, in Phase Transformations in Steels: Fundamentals and Diffusion-Controlled Transformations, 2012. 14.1 Introduction. Phase transformations in metallic microstructures are governed primarily by the free-energy difference between the parent phase and potential new phases. The origin of the free-energy difference is primarily in the chemical and structural state of the phases involved.

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Phase Transformations in Steels by Elena Pereloma, 9780081016275, available at Book Depository with free delivery worldwide.

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amount of recent research on phase transformations in steels. The book covers both fundamental aspects (thermodynamics, diffusion, etc.) and more particular features (bainite, martensite, etc.). Volume 1 reviews fundamentals, diffusion-controlled, bainite and diffusional-displacive transformations.

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