



Thermomechanical Processing of High-Strength Low-Alloy Steels

Imao Tamura, Hiroshi Sekine, Tomo Tanaka

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Thermomechanical Processing of High-Strength Low-Alloy Steels considers some advanced techniques and metallurgical bases for controlled-rolling.

This book contains 12 chapters. In Chapter 1, the purpose of thermomechanical processing and historical survey is described, while in Chapter 2, the kinetics of phase transformations and refinement of grain size in steels are elaborated. The techniques and metallurgical bases for controlled-rolling in the recrystallization, non-recrystallization, and ($\alpha + \gamma$) regions are reviewed in Chapters 3 to 5. Chapters 6 and 7 discuss the deformation resistance during hot-rolling and restoration processes. The phase transformations during cooling following hot-rolling are mentioned in Chapter 8, followed by a summarization of the effects of alloying elements in Chapter 9. Chapters 10 and 11 deal with the mechanical properties of controlled-rolled steel and prediction and control of microstructure and properties by thermomechanical processes. The problems faced and possibilities for future developments are stated in the last chapter.

This publication is recommended for physicists, metallurgists, and researchers concerned with controlled-rolling, including non-specialists who have some knowledge of metallurgy.

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