

$C_{\delta}^{\gamma\delta}$ (%)	carbon concentration in δ phase at the γ/δ interface.
f (%)	transformed volume fraction of austenite.
A_1, A_2 (-)	temperature dependent parameters.
I_0, g_0 (-)	constants.
ΔG (J)	energy barrier for stable austenite nucleation.
Q (J)	activation energy of austenite grain growth.
N (-)	factor that mainly depends on the morphology of new phase.
R (J/(K • mol))	the universal gas constant, $R = 8.314472$ J • K ⁻¹ • mol ⁻¹ .
y (m)	interface coordinate along r direction.
a (m)	cell boundary.
M (-)	alloy element in micro-alloyed steel.
\tilde{D}_{FeM}^{γ} (m ² /s)	interdiffusion coefficient of Fe and M in γ phases.
\tilde{D}_{FeM}^{δ} (m ² /s)	interdiffusion coefficient of Fe and M in δ phases.
X_M, X_{Fe}, X_C (%)	mole fractions of M, Fe and C.
V_m (m ³ /mol)	molar volume of the steel.
$u_M^{\gamma}, u_M^{\delta}$ (%)	compositions of alloy M such as Mn, Si, Cr, etc. in γ phase and δ phase.

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