

论文

SELF—SReM4模型的新发展及其在C-Mn-Fe-Si四元系中的应用

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摘要: 在亚正规熔体模型SELF—SReM4.0的基础上,提出了可解决碳化物析出问题的SELF—SReM4.1模型.并以C—Mn—Fe—Si四元系为例介绍了用上述二种模型计算组元活度的结果,分析了Si—Mn, Mn-Fe系中的若干平衡规律

关键词: C—Mn—Fe—Si四元系 热力学 亚正规熔体模型

THE NEW DEVELOPMENT OF THE SELF-SReM4 MODEL AND ITS APPLICATION TO THE QUARTERNARY SYSTEM OF C-Mn-Fe-Si

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Abstract: On the base of sub-regular melt model (SELF-SReM4.0 model), a model SELF-SReM4.1 was designed to solve the precipitate of carbide. Taking C-Mn-Fe-Si quarternary system as an example, the calculated results of component activities by above mentioned two models are introduced and some equilibrium rules of Si-Mn and Mn-Fe systems are also analysed.

Keywords: C-Mn-Fe-Si quarternary system thermodynamics sub-regular melt model

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