

<<铸造和凝固过程数值模拟新进展>>

图书基本信息

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内容概要

This proceedings contains papers on various casting and solidification processes that involve mold filling : heat transfer and solidification : stress and deformation : microstructure and defect : materials properties measurement and experimental validation. Many papers describe models of virtually every phenomenon important to casting using a wide range of modeling tools and commercial software. The 87 papers are divided into sessions according to the main casting phenomenon modeled. It is believed that these papers have represented the developments in the fields of modeling of casting and solidification processes in current status : and will also offer a guideline for scientists and engineers who are interested in these fields. 注：本书为英文版。

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书籍目录

Preface Organization Keynotes Heat and Mass Flow Modeling for Casting and Solidification Processes Fluid Flow Modeling for Casting and Solidification Processes Crystal Growth and Microstructure Modeling Simulation Method and Calculation Algorithm Micro- and Macro-segregation Stress and Deformation Modeling Continuous Casting/Direct Chill Casting Electromagnetic Coupling Casting Defects and Their Prediction Advanced Solidification and Materials Processing Industrial Applications of Modeling and Simulation

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