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## Liquid metal forming principle (the national institutions of higher learning in the 21st century application of innovative materials group training program materials)

By -

paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 281 Publisher: Peking University Pub. Date :2011-09-01 version 1. Jia Zhihong compiled a liquid metal forming principle described liquid metal forming processes related to the basic principles and rules. In addition to introduction, the book is divided into six chapters: Chapter 1 Structure and properties of liquid metal, liquid metal mainly describes the structural characteristics of liquid metal viscosity, surface tension and hereditary nature, etc. semi-solid metal characteristics; 2 Chapter liquid metal flow and heat transfer, discussed the process of forming the metal in the liquid temperature field, the basic principles of flow, as well as metals and alloys filling capacity; Chapter 3, the crystallization of liquid metal to explain the thermodynamic conditions of crystallization of liquid metal the impact of single-phase crystalline alloy; Chapter 5, the crystallization of multi-phase alloys, eutectic alloys were elaborated, monotectic alloys, including alloys and metal matrix composites the crystallization characteristics, focusing on the characteristics of eutectic alloys, classification and solidification formation mechanism and control approach. There are also appendices Gaussian error function table. Liquid metal forming principle can be used as colleges and universities...



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