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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 211 Publisher: Machinery Industry Pub. Date :2011-05-01 version 1. Non-equilibrium solidification theory and technology for the general higher education Eleventh Five-Year national planning materials. including non-equilibrium solidification process basic theory. such as non-equilibrium solidification process and solidification. the undercooled melt solidification of the basic theory. basic theory of directional solidification and undercooled melt free dendritic growth theories; rapid solidification theory and technology; the physical basis of the formation of amorphous ; non-equilibrium solidification simulation and phase-field theory; non-equilibrium solidification technology and new materials. such as continuous casting. directional solidification. semi-solid casting technology. quasicrystalline materials. ceramic materials. metal nano-materials preparation technology. Non-equilibrium solidification theory and technology can be used as materials science and other professional institutions of higher learning undergraduate and graduate teaching. but also for research in the areas of metal solidification research officers. Written by Wang Zidong editor. Contents: Preface Chapter 1 and non-equilibrium solidification process of solidification of non-equilibrium solidification process 1.1 Basic Concepts 1.1.2 1.1.1 coagulation equilibrium and nonequilibrium non-equilibrium solidification 1.2 1.3 Typical conditions for the formation of non-equilibrium solidification 1.3. a continuous ingot solidification 1.3.3 Organization 1.3.2 Directional solidification of the impact of convection on thinking questions in Chapter 2 solidification of undercooled melt solidification process 2.1 the basic theory of mathematical physics model in the phase volume of 2.1.1 equations 2.1.2 2.2 interface conditions in supercooled melt nucleation growth of the asymptotic solution of the problem 2.2.1 2.2.2 2.3 solutions on time within the undercooled melt crystal growth interface stability ball 2.3.1 2.3.2 The ground state solution of the stability ball 2.4 crystal form interface convection cooling melt for the growth of spherulites thinking questions in Chapter 3 the basic theory...

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