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; 2 Notation and main results
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3 The weighted spaces 4 An equivalent fixed point system ; 5 Proof of Theorem 6
; References ; Weak solutions for Stefan problems with convections ; 1 Introduction
; 2 Stefan problem in non-cylindrical domain with convection governed by Navier-Stokes equations
2.1 Classical formulation

Sommario/riassunto

Phase transition phenomena arise in a variety of relevant real world situations, such as melting and freezing in a solid-liquid system, evaporation, solid-solid phase transitions in shape memory alloys, combustion, crystal growth, damage in elastic materials, glass formation, phase transitions in polymers, and plasticity. The practical interest of such phenomenology is evident and has deeply influenced the technological development of our society, stimulating intense mathematical research in this area. This book analyzes and approximates some models and related partial differential equation