

Mathematical models for phase change problems with hysteresis effect

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Abstract

The paper deals with a phase change problem which includes hysteresis effect. The system under consideration could be applied to various biological models by choosing appropriate conditions. Numerical simulations of the behaviour of solutions are presented.

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1. Introduction

In this paper, we consider the following system

$$\Theta_t + u\Theta_x = \kappa\Theta_{xx} + \partial I_{K(u)}(\Theta) \ni F(\Theta, u) \quad \text{in } (0, T) \times (0, 1), \quad (1)$$

$$u_t - u_{xx} = h(\Theta, u) \quad \text{in } (0, T) \times (0, 1), \quad (2)$$

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Mathematical Models For Phase Change Problems

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Mathematical Methods and Models in Phase Transitions Alain Miranville, 2005 The modelling and the study of phase transition phenomena are capital issues as they have essential applications in material sciences and in biological and industrial processes. We can mention e.g. phase separation in alloys ageing of materials microstructure evolution crystal growth solidification in complex alloys surface diffusion in the presence of stress evolution of the surface of a thin film in heteroepitaxial growth motion of voids in interconnects in integrated circuits treatment of airway closure disease by surfactant injection fuel injection fire extinguishers etc. This book consists of 11 contributions from specialists in the mathematical modelling and analysis of phase transitions. The content of these contributions ranges from the modelling to the mathematical and numerical analysis. Furthermore many numerical simulations are presented. Finally the contributors have tried to give comprehensive and accurate reference lists. This book should thus serve as a reference book for researchers interested in phase transition phenomena.

Dissipative Phase Transitions Pierluigi Colli, Nobuyuki Kenmochi, Jurgen Sprekels, 2006-03-06 Phase transition phenomena arise in a variety of relevant real world situations such as melting and freezing in a solid liquid system.

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