Numerical Treatment of Allen's Equation Using Semi Implicit Finite Difference Methods

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Abstract. This paper aims to propose the semi implicit finite difference method for discretizing Cahn-Allen equation. The stability and convergence analysis are proved. It is shown that the suggest scheme is stable for the usage of the Fourier-Von Neumann technique. The accuracy of the proposed method is first order in time and second order in space. A comparison between the numerical and the exact solutions is supported with two examples. Numerical results are shown that there is a good agreement between the approximate solution and exact solution.

Keywords: Allen Equation, Semi Implicit Finite Difference, Stability of Allen Equation

1. Introduction

This paper is devoted to study the numerical analysis of Allen equation. Allen-Cahn equation was originally introduced by Allen and Cahn (1979) and can be regarded as a second-order stiff nonlinear partial differential equation that is utilized in material sciences as a reaction-diffusion equation and in computational fluid dynamics as a convection-diffusion equation. In crystalline materials, the Allen-Cahn model is used to describe the migration of phase boundaries. (Allen & Cahn, 1979).

Consider the following generalized Allen's equation

$$\frac{\partial u(x,t)}{\partial t} - D \frac{\partial^2 u(x,t)}{\partial x^2} = f(u,x,u(x,t)) \quad , \ (x,t) \in [a,b] \times [0,T]. \tag{1}$$

$$u(x,0)=f(x).$$

$$x \in [a, b],$$
 [2]

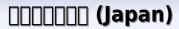
$$u(a,t) = -1, \ u(b,t) = 1.$$

$$x \in [a, b].$$
 [3]

The nonlinear source term f(u, x, u(x, t)) satisfies Lipschtiz condition with respect to u that is

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web despite northerly locations southern and central sweden may have almost no snow in some winters most of sweden is located in the rain shadow of the scandinavian mountains through norway and north west sweden

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web a regional council swedish region is a self governing local authority there are 21 regional councils one of which is a municipality having the same responsibilities as a county council each corresponding to a county