

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

Younis A. Sabawi¹ & Supa B. Ahmed² & Hoshman Q. Hamad³

^{1A3}Department of Mathematics, Faculty of Science and Health, Koya University, Koya KOY45, Koya, Iraq

^{1A2}Department of Mathematics Education, Tishk International University, Erbil, Iraq

Correspondence: Younis A. Sabawi, Koya University, Koya KOY45, Koya- F.R. Iraq.

Email: younis.abid@koyauniversity.org

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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

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

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

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

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

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

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

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via a bridge tunnel through oresund strait as you can see in sweden map it is bounded by the gulf of bothnia and the baltic
sea in the east and south and by the skagerrak and kattegat straits in the southwest

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web despite northerly locations southern and central sweden may have almost no snow in some winters most of sweden is
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covered mountains and thick forests central sweden is dominated by lower mountains in the west that give way to heavily
forested hills and ridges dozens and dozens of rivers and an estimated 101 000 lakes

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