

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

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

^{1A1}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

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

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

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

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

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

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

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