

APPLICATION OF ADOMIAN DECOMPOSITION METHOD TO SOLVE THE NONLINEAR BIOLOGICAL POPULATION MODEL AND BURGER'S EQUATIONS

Stevy Mikamona Mayembo, Joseph Bonazebe Yindoula, Justin Mouyedo Loufouilou
and Gabriel Bissanga

Abstract

The variational iteration method (VIM) and Adomian decomposition method (ADM) are used in [3], [6], [8] to approach the exact solution of a biological population model and Burger's equation, through a numerical solution. In this paper, we used the Adomian decomposition method to get the exact solution of the same biological population models and Burger's equations.

Keywords and phrases: Adomian decomposition method, biological population model, Burger's equation, exact solution.

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