

Original article

Bernoulli Differential Equations Solution Using Adomian Decomposition Method by Matlab

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ABSTRACT

This paper uses the Adomian decomposition method to solve Bernoulli differential equations, a type of nonlinear differential equation with numerous physical applications. The test problems included numerous Bernoulli differential equations with varied nonlinear component exponents, which were described using a decomposition-based numerical approach. The results are equally accurate in tables and graphs as the classical method.

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INTRODUCTION

Many issues can be represented as ordinary differential equations, particularly first-order Bernoulli differential equations, thus we must study and solve them. Bernoulli differential equations (BDE) are nonlinear equations named after J. Bernoulli, a Swiss scientist. They are equations characterized by their non-linearity and precise solutions. The equation has a non-linear term, which is a function of the independent variable elevated to a specific exponent, such as n . When $n = 0$ or 1 , the BDE is linear. Substitution is used to translate $n \geq 2$ into a linear form, allowing for linear solutions [1-4]. In this study, we use the Adomian decomposition method (ADM) to solve BDE with $n \geq 2$.

The (ADM) uses relation based on the Adomian polynomial to generate a solution for a series and since its presentation in the 1980s, the Adomian polynomial has undergone various modifications. The original Adomian polynomial is commonly utilized because to its simple and easy-to-memorize algorithm [5-8].

METHODS

Bernoulli differential equation $\frac{dy}{dx} + P(x)y = Q(x)y^n$

The Adomian Decomposition Method is extremely effective in solving nonlinear ordinary differential equations. Consider that the differential equation has the Bernoulli equation form.

$$\frac{dy}{dx} + P(x)y = Q(x)y^n \quad (1)$$

Where $P(x)$ and $Q(x)$ are arbitrary function of x , and n is an arbitrary constant.

Assume the answer of Eq. (1) is given by the power series form.

$$y(x) = \sum_{n=0}^{\infty} y_n(x) \quad (2)$$

The nonlinear term y^n can be decomposed in terms of the Adomian polynomials $A_n(x)$, given by

$$y^n(x) = \sum_{n=0}^{\infty} A_n(x) \quad (3)$$

Generally speaking, the Adomian polynomials are defined as follows for any function $f(t, x)$ [9]:

$$A_n = \left. \frac{1}{n!} \frac{d^n}{d\epsilon^n} f(t, \sum_{i=0}^{\infty} \epsilon^i y_i) \right|_{\epsilon=0} \quad (4)$$

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