

عنوان مقاله:

A preconditioned generalized minimal residual method for solving a fractional diffusion equation

محل انتشار:

ششمین کنگره بین المللی توسعه و ترویج علوم و فنون بنیادین در جامعه (سال: 1397)

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خلاصه مقاله:

In this paper, we consider a fractional advection-diffusion equation. The implicit difference method is used to discretize the fractional diffusion equation. To improve the implicit method, we use a preconditioned generalized minimal residual (preconditioned GMRES) method. Numerical experiments are given to illustrate the efficiency of the method.

کلمات کلیدی:

Fractional advection-diffusion equations, Preconditioner, Generalized minimal residual method

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