

عنوان مقاله:

On the Modified Block-Pulse Function for Volterra Integral Equation of The First Kind

محل انتشار:

مجله بین المللی ریاضیات صنعتی, دوره 14, شماره 4 (سال: 1401)

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خلاصه مقاله:

In this paper, we consider Volterra integral equations of the first kind. Then by extending the modified Block-pulse functions (MBPFs) on the Volterra integral equation of the second kind obtained from Volterra integral equation of the first kind, we obtain the approximate solution. Some theorems are proved to provide an error analysis for proposed method. Numerical examples show that the proposed scheme has a suitable degree of accuracy.

کلمات کلیدی:

Volterra integral equation of the first kind, Block-pulse functions, Operational matrix, Function expansion, Convergence

لینک ثابت مقاله در پایگاه سیویلیکا:

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