

عنوان مقاله:

Quartic and pantic B-spline operational matrix of fractional integration

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خلاصه مقاله:

In this work, we proposed an effective method based on cubic and pantic B-spline scaling functions to solve partial differential equations of fractional order. Our method is based on dual functions of B-spline scaling functions. We derived the operational matrix of fractional integration of cubic and pantic B-spline scaling functions and used them to transform the mentioned equations to a system of algebraic equations. Some examples are presented to show the applicability and effectivity of the technique.

کلمات کلیدی:

B-spline, Wavelet, fractional equation, partial differential equation, Operational matrix of integration

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