

عنوان مقاله:

Numerical solution of the forced Duffing equations using Legendre multiwavelets

محل انتشار:

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خلاصه مقاله:

A numerical technique based on the collocation method using Legendre multiwavelets are presented for the solution of forced Duffing equation. The operational matrix of integration for Legendre multiwavelets is presented and is utilized to reduce the solution of Duffing equation to the solution of linear algebraic equations. Illustrative examples are included to demonstrate the validity and applicability of the new technique.

کلمات کلیدی:

Forced Duffing equations, Multiwavelet, Operational matrix of integration, Collocation method

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