

عنوان مقاله:

An improved Robust Mesh free Method for analyzing the vibrating behavior in Solid Mechanics

محل انتشار:

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خلاصه مقاله:

In this paper, the local radial point interpolation method (LRPIM), is developed for the investigation of time-dependent problems in solid mechanics. Instead of Gaussian quadrature, the integrands are approximated up to the second order of the Taylor series and the integrals emerged from equations are easily evaluated for each node. Some numerical examples are investigated by the suggested method. It has been shown that using the proposed method greatly reduces the number of integration points without affecting the accuracy of the results.

کلمات کلیدی:

Ceramic Coating, FEM analysis, Temperature gradient, Thermal expansion

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