

عنوان مقاله:

Static analysis of functionally graded plate in thermal environment using HDQ-DQ method

محل انتشار:

همایش ملی آشنایی با فناوریهای روز در زمینه مهندسی مکانیک (سال: 1389)

تعداد صفحات اصل مقاله: 7

نویسندگان:

P. Malekzadeh - *Department of Mechanical Engineering, Persian Gulf University, Bushehr ۷۵۱۶۸, Iran*

P. Zahedinejad - *Department of Mechanical Engineering, Islamic Azad University, Shiraz, Iran*

M. Janghorban - *Department of Mechanical Engineering, Islamic Azad University, Shiraz, Iran*

خلاصه مقاله:

A three-dimensional elasticity theory is presented for the investigation of displacements and stresses in FG square plate subjected to thermal loadings. The material properties are assumed to be graded in the thickness direction, which vary according to the simple power law distribution. Differential quadrature(DQ) and harmonic differential quadrature(HDQM) methods are adopted to solve the equilibrium equations. The accuracy of the method is demonstrated by comparing the results with those of the existing solutions

کلمات کلیدی:

Functionally graded materials, 3D elasticity theory, Differential quadrature method, Harmonic differential quadrature method, Thermal environment

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