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Analysis of thermal stresses to 2D plane thermoelastic inhomogeneous strip

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2D plane thermoelastic problems, inhomogeneous strip, thermal stresses, Volterra integral equation, analytical solution

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Abstract

This paper deals with study of the plane elasticity of thermoelastic problems for inhomogenous strip. Here, the original problems are reduced to set the governing equations in the volterra integral equations by making the use of direct integration method. Further using the iteration technique the numerical calculations has been performed. The stress distribution obtained and calculated numerically and shown graphically.

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