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Plane Deformation Due to Thermal Source in Fractional Order Thermoelastic Media
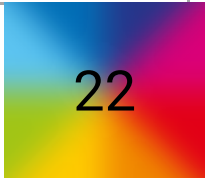
Authors: Kumar, Rajneesh; Gupta, Vandana; Abbas, Ibrahim A.

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The present investigation deals with the deformation due to thermal source in a thermally elastic body with fractional order derivative. As an application of the approach; a particular type of continuous thermal source has been taken. The displacement and stress components and temperature distribution are obtained and presented graphically to illustrate the effect of fractional order derivatives.

Keywords: ELASTIC BODY; FINITE ELEMENT METHOD; FRACTIONAL ORDER; THERMAL SOURCE

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