

## A Problem in Microstretch Thermoelastic Diffusive Medium

**Authors :** Devinder Singh, Arvind Kumar, Rajneesh Kumar

**Abstract :** The general solution of the equations for a homogeneous isotropic microstretch thermo elastic medium with mass diffusion for two dimensional problems is obtained due to normal and tangential forces. The integral transform technique is used to obtain the components of displacements, microrotation, stress and mass concentration, temperature change and mass concentration. A particular case of interest is deduced from the present investigation.

**Keywords :** normal force, tangential force, microstretch, thermoelastic, the integral transform technique, deforming force, microstress force, boundary value problem

**Conference Title :** ICMMS 2014 : International Conference on Mathematics and Mathematical Sciences

**Conference Location :** Zurich, Switzerland

**Conference Dates :** January 14-15, 2014