

On a Vibration Problem of the Transversely Isotropic Solids

Natalia Chinchaladze^a

e-mail: chinchaladze@gmail.com

^a Department of Mathematics of the Faculty of Exact
and Natural Sciences
of I. Javakhishvili Tbilisi State University, Tbilisi,
Georgia

In [1] transversely isotropic elastic piezoelectric nonhomogeneous bodies in the case when the poling axis coincides with one of the material symmetry axes is considered. The present talk is devoted to the oscillation problem such materials when the constitutive coefficients depending on the body projection (i.e., on a domain lying in the plane of interest) variables may vanish either on a part or on the entire boundary of the projection.

Acknowledgment. This work is supported by Shota Rustaveli National Science Foundation [217596, Construction and investigation of hierarchical models for thermoelastic piezoelectric structures].

References

[1] G. Jaiani, Piezoelectric Viscoelastic Kelvin-Voigt Cusped Prismatic Shells. *Lecture Notes of TICMI*, **19**, 2019