

List of publications of Avtandil Gachechiladze

1. A. Gachechiladze A maximum principle and the implicit Signorini problem. *Mem. Differential Equations Math. Phys.* **23** (2001), 17-50.
2. A. Gachechiladze, D. Natroshvili Boundary Variational Inequality Approach in the Anisotropic Elasticity for the Signorini Problem. *Georgian Math. J.* **8** (2001), No. 3, 469-492. *
3. A. Gachechiladze An implicit Signorini problem in the theory of elasticity. *Bull. Georgian Acad. Sci.* **157** (1998), No. 2, 192-196.
4. A. Gachechiladze A maximum principle in Signorini problems. *Bull. Georgian Acad. Sci.* **164** (2001), No. 3, 436-439.
5. A. Gachechiladze About generalization of one quasi-variational inequality, *Bull. Georgian Acad. Sci.* **167** (2003), No. 3, 394-397.
6. A. Gachechiladze On the uniqueness of some quasi-variational inequalities in control theory. *Georgian Math. J.* **11** (2004), No. 2, 229-242. *
7. A. Gachechiladze On the method of monotonicity in problems with an implicit obstacle. *Proc. A. Razmadze Math. Inst.* **135** (2004), 61-72.
8. A. Gachechiladze, R.Gachechiladze, D.Natroshvili, I. Stratis Transmission problems in the theory of elastic Hemitropic materials, *Applicable Analysis* 86: 12, (2007) 1463-1508. *
9. A. Gachechiladze, R.Gachechiladze, D.Natroshvili Boundery-Contact Problems for Elastic Hemitropic Bodies. *Mem. Differential Equations, Math.Phys.*48(2009)75-96.
10. A. Gachechiladze, R. Gachechiladze, D. Natroshvili Unilateral contact problems with friction for hemitropic elastic solids. *Georgian Math. J.*16(2009),No.4,629-650. *
11. A. Gachechiladze, R. Gachechiladze, D. Natroshvili A boundary variational inequality approach to unilateral contact problems with friction for micropolar hemitropic solids. *Mathematical Methods in the Applied Sciences, Volume 33,issue 18, 2010, pages 2145-2161.* *
12. A. Gachechiladze, R. Gachechiladze, D. Natroshvili Contact problems with friction for hemitropic solids: boundary variational inequality approach. *Applicable Analysis, Vol.90, No.2, February 2011, 279-303.* *
13. A. Gachechiladze, R. Gachechiladze, D. Natroshvili Frictionlees contact problems for elastic hemitropic solids: Boundary variational inequality approach. *Rend. Lincei Mat. Appl.* 23 (2012).267-293 DOI 10.4171/RLM/628. *
14. A. Gachechiladze, R. Gachechiladze The boundary contact problem for hemitropic elastic solids with friction arising along the normal, *Proc. A. Razmadze Math. Inst.* 163(2013), 39-57.
15. A. Gachechiladze, R. Gachechiladze, D. Natroshvili Dynamical contact problems with friction for hemitropic elastic solids, *Georgian Math. J.* 21 (2014), No.2, 165-186. *

16. A. Gachechiladze, R. Gachechiladze One-sided contact problems with friction arising along the normal. Translation of *Differ. Uravn.* 52 (2016), no. 5, 589-607. *Differ. Equ.* **52** (2016), no. 5, 568-586. *
17. A. Gachechiladze, R. Gachechiladze Unilateral contact problems with a friction. *Trans. A. Razmadze Math. Inst.* **170** (2016), no. 3, 363-375.
18. A.Gachechiladze, R. Gachechiladze Unilateral contact problems for homogeneous hemitropic elastic solids with a friction. *Mem. Differ. Equ. Math. Phys.* **74** (2018), 93-111.
19. A.Gachechiladze, R. Gachechiladze Dynamical contact problems with regard to friction of couple-stress viscoelasticity for inhomogeneous anisotropic bodies. *Mem. Differ. Equ. Math. Phys.* **79** (2020), 69-91.
20. A.Gachechiladze, R. Gachechiladze Boundary contact problems with regard to friction of couple-stress viscoelasticity for inhomogeneous anisotropic bodies (quasi-static cases) *Georgian Math. J.* **30** (2023), no. 6, 855-871.*