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Head of Department of Thin-Walled Systems, Institute of Mechanics
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Research Interests:

Solid mechanics; Theory of beams, plates and shells; Theory of elasticity; Theory of base and foundation; Wave processes; Seismology.

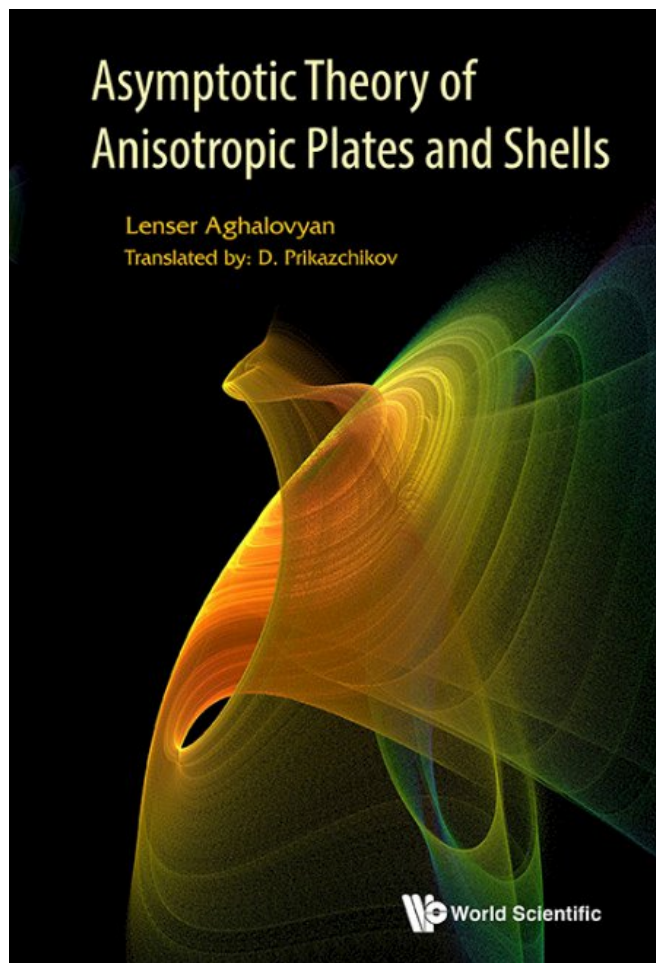
Awards and Honors:

Honored Scientist of the Republic of Armenia
Laureate of award of the Armenian Scientific and Engineering Society
Association in USA with V. Ambartsumyan

Selected Publications:

Monographs:

Aghalovyan L.A. (1997) Asymptotic Theory of Anisotropic Plates and Shells. Moscow, Nauka". 414 pages
Aghalovyan L.A., Gevorgyan R.S. (2005) Non classical Boundary-value Problems of Anisotropic Layered Beams, Plates and Shells. Yerevan, Publishing House of the National Academy of Sciences of Armenia. 468



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Lenser Aghalovyan. Asymptotic Theory of Anisotropic Plates and Shells, 2015. World Scientific Publishing, Singapore-London, 376 pages

Journal Articles, etc.:

Aghalovyan L. A., Aghalovyan M. L. On Asymptotic Theory of Beams, Plates and Shells. Journal of Curved Layered Structures, Vol. 3, Issue 1 (Jan. 2016), pp.74-81.

Aghalovyan L. A., Gevorgyan R.S. Asymptotic solutions of boundary value problems of electroelasticity for transversely isotropic toroidal shells made from piezoceramic materials. Mechanics of Composite Materials , 2016, Vol.52, No3, pp.283-294.

Lenser A. Aghalovyan. On Some Classes of 3D Boundary-Value problems of Statics and Dynamics of Plates and Shells. In book: Shell and Membrane Theories in Mechanics and Biology, 2015. Springer International Publishing. Switzerland, pp.1-23.

L.A.Aghalovyan. On one class of Three-dimensional problems of Elasticity theory for plates. Proceedings of A. Razmadze Mathematical Institute. 2011. Vol. 155. pp.3-10.

Aghalovyan L.A. On the classes of problems for deformable one-layer and multilayer thin bodies solvable by the asymptotic method. Mechanics of composite materials. 2011. Vol.47. No1. March. pp.59-72.

L.A. Aghalovyan. Non-classical Spatial Boundary Value Problems on Statics and Dynamics of Shells and the Asymptotic Method of Their Solution. In book: Shell-like Structures-Non-classical Theories and Applications”. Springer. 2011. pp.3-14.

Aghalovyan L.A. An asymptotic Method of Boundary Value Problems Solution of Elasticity Theory for Thin Bodies. Recent Advances in Mechanics. Proceed. of Symposium. September 17-19. 2009. Athens, Greece

Aghalovyan L.A., Gevorgyan R.S., Ghulghazaryan L.G. The asymptotic solutions of 3D dynamic problems for orthotropic cylindrical and toroidal shells. Proceedings of National Academy of Sciences. Mechanics. 2010.V. 63, N 1, pp. 6-22.

Aghalovyan L.A., Ghulghazaryan L.G. Non-classical boundary-value problems of the forced vibrations of orthotropic shells. International Applied Mechanics. 2009. Vol. 45(55). N8. Pp. 105-122.

Aghalovyan L.A. Asymptotic theory of anisotropic plates and shells. Proceedings of NAS RA. Mechanics. 2009. Vol. 62. N1. Pp.5-39.

Aghalovyan L.A. An Asymptotic Method for Solving Three-Dimensional Boundary Value Problems of Statics and Dynamics of Thin Bodies. Proceedings of the IUTAM Symposium on the Relations of Shell, Plate, Beam, and 3D Models”, Springer, 2008 pp.1-20.

Aghalovyan L.A., Gevorgyan R.S., Sahakyan A.V. On dynamic behaviour of a three-layered plate-like laminate with a middle incompressible layer. Proceed of International workshop on base isolated high-rise buildings” Yerevan: “Gasprint”. 2008 pp. 45-55.

Aghalovyan L.A., Sahakyan A.V., Aghalovyan M.L. Analysis of layered bases-foundations models under seismic actions Smart Structures and System. Int. Journal Techno-Press. October 2006. Vol. 2. N 4, pp. 295-304.

Aghalovyan L.A., Ghulghazaryan L.G. Asymptotic solutions of non-classical boundary-value problems of the natural vibrations of orthotropic shells. Journal of Applied Mathematics and mechanics. 70(2006) pp. 102-115

Aghalovyan L.A., Aghalovyan M.L. Asymptotics of free vibrations of anisotropic plates fastened with an absolutely rigid base. “Modern problems of deformable bodies mechanics” Collection of papers. Vol. 1. 2005. Yerevan. pp. 8-19.

Aghalovyan L.A., Aghalovyan M.L. On forced vibrations of beams under seismic and force actions when there is a viscous resistance. Proceedings of the Third European Conference on structural control. Vienna. Austria. 2004. Vol 1. pp. M6-25-M6-28.

Aghalovyan L.A. On asymptotic method of static and dynamic boundary problems solution. 21st International Congress of Theoretical and Applied Mechanics. (ICTAM04). Abstracts Book. Warsaw. Poland. 2004. p.243

Aghalovyan L.A. On singular perturbed equations on thin bodies. Topics in Analysis and its Applications. NATO Science Series. II Mathematics, Physics and Chemistry - Vol. 147. Kluwer Academic Publishers. 2004. pp. 403-413.

Aghalovyan L.A., Gevorgyan R.S., Sahakyan A.V. About three-layered model of plate-like seismoisolator. Proceeding of the 8th world seminar on seismic isolation, energy dissipation and active vibration control of

structures. Gas print Publishers. 2003. pp. 366-378

Agalovyan L.A., Gevorgyan R.S., Sahakyan A.V., and Ghulghazaryan L.G. Analysis of forced vibrations of base-foundation packet and seismoisolator on the base of dynamic equations of elasticity theory. Proceeding of the 3rd World Conference on Structural Control. 2003. Wiley. Vol.2. pp. 759-764.(April 7- 11, 2002, Como, Italy).

Aghalovyan L.A. Asymptotic of Solutions of Classical and Nonclassical Boundary Value Problems of Statics and Dynamics of Thin Bodies. Int. Appl. Mech. 2002. Vol. 38. No7, pp.3-24.

L.A. Aghalovyan, R.S. Gevorgyan , A.V.Sahakyan, , M.L. Aghalovyan. Asymptotics of Forced Vibrations of Bases, Foundations and Seismoisolators. Journal of Structural Control. 2001. Vol. 8. No 2, pp. 249-263.

L. A. Aghalovyan, "An asymptotic method for solving dynamical mixed problems of anisotropic strips and plates," Izv. Vusov, Sever-Kavkaz. Region, Estestv. Nauki, No. 3, 8-11 (2000).