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**Degrees:**

Ph. D. in Computational Mechanics (Dnepropetrovsk National University, 2006).

**Title: Post-critical behaviour and solution branching for the cylindrical shell theory non-linear problems.**

M. Sc. in Applied Mathematics (Dnepropetrovsk National University, 2000).

**Title: Catastrophe of spherical shell.**

## **Curriculum Vitae:**

Seniour researcher of Center for Reliability and Sustainability of Structures (Dnipropetrovsk National University, since 2007), research officer of the same center (since 2000).

Associate professor (since 2002) of Computational Mathematics and Mathematical Cybernetics Department (Applied Mathematics Faculty, Dnepropetrovsk National University).

Visiting professor of Universite du Maine (Le-Mans, France, Faculty of Science and Technologies, May 2011, November 2012).

## **Selected book publications:**

N. I. Obodan, O. G. Lebedeyev, and V. A. Gromov, *Nonlinear Behaviour and Stability of Thin-walled Shells*, Springer, 179 p, 2013

(<http://www.springer.com/materials/mechanics/book/978-94-007-6364-7>)

## **Selected papers:**

1. Obodan N., Gromov V. (2013) Nonlinear behavior and buckling of cylindrical shells subjected to localized external pressure \\\ J. of Engng Mathematics, Vol. 78, 1, pp 239-248
2. Gromov V., Shulga A. (2012) Chaotic time series prediction with employment of ant colony optimization \\\ Expert Systems with Applications, Vol. 39, 9, pp 8474-8478
3. Obodan N., Gromov V. (2006) Numerical analysis of the branching of the solutions for the non-linear cylindrical shell theory \\\ International applied mechanics, 1, pp 103– 112.
4. Gromov V., Shulga A. (2011) Chaotic time series prediction with employment of ant colonies optimization \\\ Issues of applied mathematics and mathematical modeling, Vol. 7, № 1, pp 78-86 (in Russian)
5. Obodan N., Gromov V. (2010) Catastrophe theory methods and nonlinear boundary problem of shallow shells theory \\\ Theoretical foundations of Civil Engineering: Polish-Ukrainian-Lithuanian Transactions, Vol. 17 (in Russian).
6. Gromov V. (2007) Solution structure of non-linear shell theory boundary problem for the case of axially loaded cylindrical shell \\\ Bulletin of Dnipropetrovsk National University. Series: Mechanics, 11, pp 74–83. (in Russian).

Nonlinear Behaviour and Stability of Thin-Walled Shells

Obodan, N.I.; Lebedeyev, O.G.; Gromov, V.A.

2013, VII, 178 p., Hardcover

ISBN: 978-94-007-6364-7