



Professor Jordanka Ivanova

From: Jordanka Ivanova and Franco Pastrone, Geometric method for stability of non-linear elastic thin shells (Google eBook), Springer, 2001

See:

http://www.researchgate.net/profile/Jordanka_Ivanova

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Research Interests:

Computational mechanics Finite element modeling, Structural dynamics, Structural analysis

Selected Publications:

Jordanka Ivanova, "Cylindrical orthotropic shells undergoing external pressure – A geometrical stability theory considering postcritical deformations", Teoretichna Prilozhna Mekhanika 01/1982, Vol 3

Jordanka Ivanova, "Mechanical interpretation of the Berger's hypothesis for the global stability of statically loaded shells", International Journal of Non-Linear Mechanics 01/1987; 22 (1), pp 73-77

Jordanka Ivanova, "Variational principle for global stability of elasto-plastic thin shells", International Journal of Non-Linear Mechanics, 01/1991; 26(1), pp 117-124

J. Ivanova and I. Trendafilova, "A stochastic approach to the problem of stability of a spherical shell with initial imperfections", Probabilistic Engineering Mechanics, Vol. 7, No. 4, 1992, pp. 227-233, doi:10.1016/0266-8920(92)90026-E

I. Trendafilova and J. Ivanova, "Loss of stability of thin, elastic, strongly convex shells of revolution with initial imperfections, subjected to uniform pressure. A probabilistic approach", *Thin-Walled Structures*, Vol. 23, Nos. 1-4, 1995, pp. 201-214, Special Issue: Buckling Strength of Imperfection-sensitive Shells, doi:10.1016/0263-8231(95)00012-3

Jordanka Ivanova and Franco Pastrone, *Geometric method for stability of non-linear elastic thin shells* (Google eBook), Springer, 2001, 244 pages

Parashkevola, L., Ivanova, J., and Bontcheva, N., 2004, "Optimal Design of Functionally Graded Plates With Thermo-Elastic Plastic Behaviour," *C. R. Mec.*, 332, pp. 493–498.