



Professor Ewa Magnucka-Blandzi Porus plate wall with varying density through thickness

See:

<http://www.math.put.poznan.pl/instit.htm>

http://www.math.put.poznan.pl/fasci_e_board.htm

Institute of Mathematics

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Research Interests: Difference and functional equations, Real functions, Numerical methods, Strength of materials, Stability of structures, Mathematical modeling

Selected Publications:

E. Magnucka-Blandzi and K. Magnucki, Poznan University of Technology Piotrowo 3A, 60-965 Poznan, Poland, "Elastic buckling of an axially compressed open circular cylindrical shell", PAMM · Proc. Appl. Math. Mech. 4, 546–547 (2004) / DOI 10.1002/pamm.200410254

Magnucka-Blandzi E., Magnucki K., 2005, Dynamic stability of a porous circular plate, Proc. 8th Conference on Dynamical Systems, Theory and Applications, J. Awrejcewicz, D. Sendkowski, J. Mrozowski (Edit.), Łódź, Poland, 1, 353-360

Magnucka-Blandzi E., 2006, Vibration of a porous-cellular circular plate, Proceedings in Applied Mathematics and Mechanics, PAMM, 6, 243-244

E. Magnucka-Blandzi and K. Magnucki, "Effective design of a sandwich beam with a metal foam core", Thin-Walled Structures, 04/2007; 45(4):432-438. DOI: 10.1016/j.tws.2007.03.005

Magnucka-Blandzi E., 2008, Axi-symmetrical deflection and buckling of circular porous-cellular plate, Thin-Walled Structures, 46, 333-337

E. Magnucka-Blandzi, Critical state of a thin-walled beam under combined load, Applied Mathematical Modelling 33, 2009, pp. 3093– 3098.

Ewa Magnucka-Blandzi (Institute of Mathematics, Poznan University of Technology, Poznan, Poland), “Dynamic stability of a metal foam circular plate”, *Journal of Theoretical and Applied Mechanics*, Vol. 47, No. 2, pp 421-433, Warsaw 2009

Ewa Magnucka-Blandzi (Institute of Mathematics, Poznan University of Technology, Poznan, Poland), “Lateral buckling of a thin-walled beam under combined load”, *Mathematical Methods and Techniques in Engineering and Environmental Science*, (vol. & date not given in the pdf file; Most recent reference is 2010)

Magnucka-Blandzi E.: Mathematical modeling of a rectangular sandwich plate with a metal foam core. *J. Theoretical and Applied Mechanics*, vol. 49 (2), 2011, pp. 439-455.

E. Magnucka-Blandzi, P. Paczos and P. Wasilewicz, “Buckling Study of Thin-walled Channel Beams with Double-box Flanges in Pure Bending”, *Strain*, Vol. 48, No. 4, pp 317-325, August 2012, DOI: 10.1111/j.1475-1305.2011.00825.x

P. Jasion, E. Magnucka-Blandzi, W. Szyc and K. Magnucki
“Global and local buckling of sandwich circular and beam-rectangular plates with metal foam core”, *Thin-Walled Structures*, Vol. 61, pp. 154-161, December 2012, DOI: 10.1016/j.tws.2012.04.013

Magnucki K., Walachowski M., Magnucka-Blandzi E.: Bending and buckling of circular sandwich orthotropic plates with corrugated cores. *Proc. of the 5th SEMC 2013 Conf.*, Cape Town, South Africa, *Structural Engineering, Mechanics and Computation*, A. Zingoni (Ed.), Taylor & Francis Group, London, 2013, pp. 879-883.

Belica T., Magnucka-Blandzi E.: Non-linear stability analysis of a porous-cellular cylindrical panels. *Proc. of the 10th SSTA Conf.*, Vol.3, *Shell Structures: Theory and Applications*, W. Pietraszkiewicz, J. Górski (Eds.) Taylor & Francis Group, London, 2014, pp. 175-178.