



Professor Agnieszka Sabik

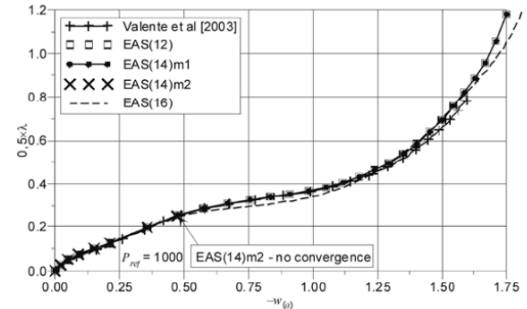
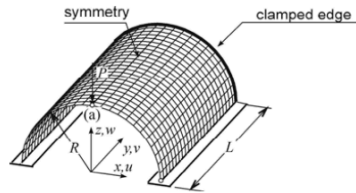


Figure 1. Semi-cylindrical shell under a point load, comparison of solutions

From: J. Chróscielewski, I. Kreja, A. Sabik and W. Witkowski, "Composite shells in 6-field nonlinear shell theory", in: Selected Topics of Contemporary Solid Mechanics, edited by Z. Kotulski, P. Kowalczyk and W. Sosnowski, Proceedings of the 36th Solid Mechanics Conference, Gdansk, Poland, September 9-12, 2008

See:

https://www.researchgate.net/profile/Agnieszka_Sabik
<https://scholar.google.com/citations?user=NTdmWQ4AAAAJ&hl=pl>

Faculty of Civil and Environmental Engineering, Dept. of Mechanics of Materials and Structures
 Gdansk University of Technology, Gdansk, Poland

Selected Publications:

- Sabik, A., Kreja, I.: Linear analysis of laminated multilayered plates with the application of zig-zag function. Arch. Civ. Mech. Eng. 8, 61–72 (2008)
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- A. Sabik and I. Kreja, "Numerical analysis of laminated shells under in-plane axial compression", PAMM, Vol. 9, No. 1, pp 251-252, 2009
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- Sabik A., Kreja I.: Imperfection sensitivity of multilayered composite shells, Shell Structures: Theory and Applications, eds. W. Pietraszkiewicz & I. Kreja, CRC Press/Balkema, London, Vol. 2, 2010, pp. 137–140.
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- A. Sabik and I. Kreja, "Stability analysis of multilayered composite shells with cut-outs", Archives of Civil and Mechanical Engineering, vol. 11, no. 1, pp. 195-207, 2011
- Chróscielewski, J., Kreja, I., Sabik, A., Witkowski, W.: Modeling of composite shells in 6-parameter nonlinear theory with drilling degree of freedom. Mech. Adv. Mater. Struct. 18, 403–419 (2011)
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Sabik A, Kreja I. Large thermo-elastic displacement and stability FEM analysis of multilayered plates and shells. *Thin Wall Struct* 2013;71:119-133.

K. Winkelmann and A. Sabik, "Computations of critical load value of composite shell with random geometric imperfections", *Shell Structures: Theory and Applications*, Vol. 3, pp 267-270, edited by W. Pietraszkiewicz and J. Gorski, CRC Press 2014

Sabik, A., Kreja, I.: Thermo-elastic non-linear analysis of multi-layered plates and shells. *Compos. Struct.* 130, 37-43 (2015)

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J. Chroscielewski, A. Sabik, B. Sobczyk and W. Witkowski, "Nonlinear FEM 2D failure onset prediction of composite shells based on 6-parameter shell theory", *Thin-Walled Structures*, Vol. 105, pp 207-219, August 2016

Kreja, I., Sabik, A.: A study on transverse shear correction for laminated sandwich panels. In: Pietraszkiewicz, W., Witkowski, W. (eds.) *Shell Structures: Theory and Applications*, vol. 4, pp. 113-116. CRC Press, Boca Raton (2018)

A. Sabik, "Progressive failure analysis of laminates in the framework of 6-field non-linear shell theory", *Composite Structures*, Vol. 200, pp 195-203, 15 September 2018

A. Sabik, "In-plane shear nonlinearity in failure behavior of angle-ply laminated shells", *Composite Structures*, Vol. 225, Article 111164, 1 October 2019

Jacek Chroscielewski, Agnieszka Sabik, Bartosz Sobczyk and Wojciech Witkowski, "2-D constitutive equations for orthotropic Cosserat type laminated shells in finite element analysis", *Composites Part B: Engineering*, Vol. 165, pp 335-353, 15 May 2019

Ireneusz Kreja, Agnieszka Sabik, "Equivalent single-layer models in deformation analysis of laminated multilayered plates", *Acta Mechanica*, Vol. 230, No. 8, pp 2827-2851, August 2019