



**Professor Mihai Nedelcu**

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**Selected Publications:**

- Mihai Nedelcu, “Buckling analysis of thin-walled members and vibration analysis of civil engineering structures”, Habilitation thesis, Technical University of Cluj-Napoca, 2009
- Mihai Nedelcu, “GBT formulation to analyse the behaviour of thin-walled members with variable cross-section”, *Thin-Walled Structures*, Vol. 48, No. 8, August 2010, pp. 629-638
- Nedelcu, M.: GBT formulation to analyse the buckling behaviour of isotropic conical shells. *Thin-Walled Structures* 49, 812-818 (2011)
- Nedelcu, M., GBT-based buckling mode decomposition from finite element analysis of thin-walled members, *Journal of Thin-Walled Structures*, 54, pp. 156–163, 2012.
- Mihai Nedelcu, “GBT-based buckling mode decomposition from finite element analysis of thin-walled

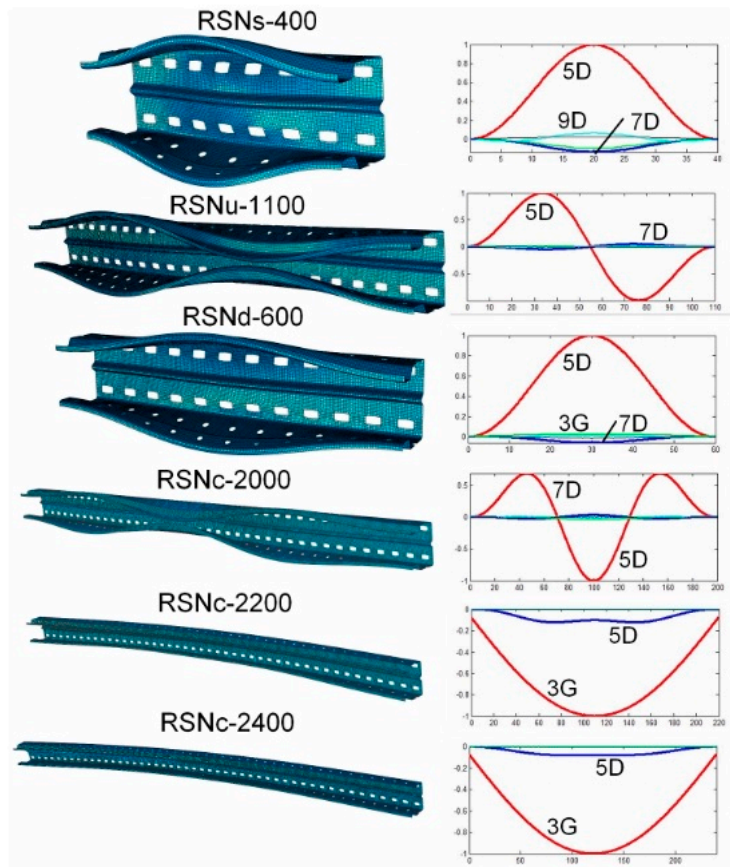


Figure 16. Perforated members: 1<sup>st</sup> FEA buckling mode and the amplitudes of the most relevant pure deformation modes.

From: Mihai Nedelcu, Andrei Crisan, Viorel Ungureanu and Dan Dubina, “Analysis of storage rack members by using GBT and Shell FEA”, *Proceedings of the ICTWS 2014, 7<sup>th</sup> International Conference on Thin-Walled Structures, ICTWS2014, Busan, Korea*

members”, *Thin-Walled Structures*, Vol. 54, pp 156-163, May 2012

Nedelcu, M., Chira N., Cucu, H.L., Popa A.G., Buckling mode decomposition of thin-walled members with holes, 5th International Conference on Structural Engineering, Mechanics and Computation, Cape Town, South Africa, 2-4 September 2013.

Nedelcu, M., Cucu H. L., Buckling modes identification from fea of thin-walled members using only GBT cross-sectional deformation modes, *Journal of Thin-Walled Structures*, Vol. 81, pp 150-158, August 2014.

Mihai Nedelcu, “Buckling mode identification of perforated thin-walled members by using GBT and shell FEA”, *Thin-Walled Structures*, Vol. 82, pp 67-81, September 2014

Mihai Nedelcu, Andrei Crisan, Viorel Ungureanu and Dan Dubina, “Analysis of storage rack members by using GBT and Shell FEA”, *Proceedings of the ICTWS 2014, 7<sup>th</sup> International Conference on Thin-Walled Structures, ICTWS2014, Busan, Korea*

Mihai Nedelcu, Anca Popa, Hortensiu-Liviu Cucu and Nicolae Chira, “Vibration mode decomposition from finite element analysis of thin-walled members with holes”, publisher not listed, June 2016

Mihai Nedelcu, “Generalisation of the Ayrton-Perry formula for the global-distortional-local buckling of thin-walled members”, *Thin-Walled Structures*, Vol. 118, pp 73-86, September 2017