



Professor Eugenio Ruocco

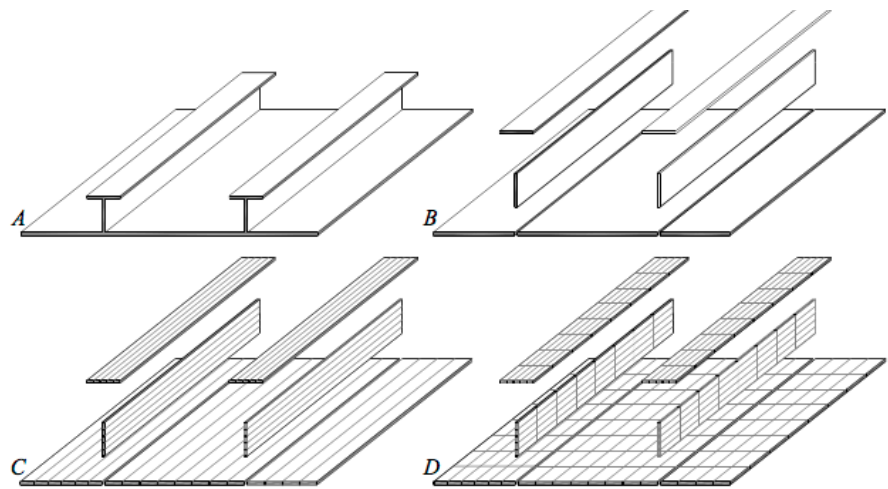


Figure 2. Comparison of discretizations used: (A) Typical stiffened plate, (B) analytical, (C) FSM, (D) FEM.

From: S. Ciaramella, M. Migliore, V. Minutolo and E. Ruocco, “A numerical model based on closed form solution for elastic stability of thin plates”, WCCM/APCOM 2010, Materials Science and Engineering, Vol. 10, 012147, 2010

See:

https://www.researchgate.net/profile/Eugenio_Ruocco

<https://scholar.google.it/citations?user=1MQALAQAQAAAJ&hl=it>

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Selected Publications:

E. Ruocco, C. M. Wang, H. Zhang and N. Challamel, An approximate model for optimizing Bernoulli columns against buckling, *Eng. Struct.* 141 (2007) 316–327.

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E. Ruocco, V. Minutolo and S. Ciaramella, A generalized analytical approach for the buckling analysis of thin rectangular plates with arbitrary boundary conditions, *Int. J. Struct. Stab. Dyn.* 11(1) (2011) 1–21.

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Ruocco, E. and Fraldi, M., ‘Critical behavior of flat and stiffened shell structures through different kinematical models: A comparative investigation’, *Thin-Walled Structures*, Volume 60, pp 205-215, 2012

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47, April 2013

Eugenio Ruocco, "Effects of nonlinear strain components on the buckling response of stiffened shear-deformable plates", *Composites Part B: Engineering*, Vol. 69, pp 31-43, February 2015

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Eugenio Ruocco, "Elastic/plastic buckling of moderately thick plates and members", *Computers & Structures*, Vol. 158, pp 148-166, October 2015

Eugenio Ruocco, Raffaele Di Laora and Vincenzo Minutolo, "An exponential matrix method for the buckling analysis of underground pipelines subjected to landslide loads", *Procedia Earth and Planetary Science*, Vol. 16, pp 25-34, 2016

E. Ruocco, H. Zhang, C.M. Wang, "Hencky bar-chain model for buckling analysis of non-uniform columns", *Structures*, 6 (2016), pp. 73-84

H. Zhang, C.M. Wang, E. Ruocco, N. Challamel, "Hencky bar-chain model for buckling and vibration analyses of non-uniform beams on variable elastic foundation", *Eng. Struct.*, 126 (2016), pp. 252-263

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H. Zhang, C. M. Wang, N. Challamel and E. Ruocco, Semi-analytical solutions for optimal design of columns based on Hencky bar-chain model, *Eng. Struct.* 136 (2017) 87–99

E. Ruocco, C.M. Wang, H. Zhang and N. Challamel, "An approximate model for optimizing Bernoulli columns against buckling", *Engineering Structures*, Vol. 141, pp 316-327, June 2017

E. Ruocco, H. Zhang and C.M. Wang, "Hencky bar-net model for buckling and vibration analyses of rectangular plates with non-uniform thickness", *Engineering Structures*, Vol. 168, pp 576-588, 1 August 2018

E. Ruocco, H. Zhang and C.M. Wang, "Buckling and vibration analysis of nonlocal axially functionally graded nanobeams based on Hencky-bar chain model", *Applied Mathematical Modelling*, Vol. 63, pp 445-463, November 2018

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