Figure 4 7– and 11–cells columns buckling mode

From: Krolak M, Mania RJ (2010) Critical and postcritical behavior of thin walled multicell column of open profile. Mech Mech Eng 14(2):281–290

Professor Marian Krolak

See:
http://www.mechmat.eu/staff.html

Department of Strength of Materials
Lodz University of Technology

Selected Publications:

Krolak, M.: Statecznosc ortotropowej powloki stozkowej sciskanej osiowo – w ujeciu nieliniowym, Archiwum Budowy Maszyn, Zeszyt 3, Lodz, 1969

Krolak, M. (ed.): Post–buckling behaviour and load carrying capacity of thin–walled plate girders, PWN, Warsaw–Lodz, 1990.

Krolak M (ed) (1995) Statecznosc, stany zakrytyczne i nosnosc graniczna cienkosciennych dzwigarow o scianach plaskich. Series of monographs, Technical University of Lodz Press

Kolakowski Z, Krolak M (1995) Interactive elastic buckling of thin-walled closed orthotropic beam-columns. Eng Trans 43(4):591–602

Z. Kolakowski, M. Krolak, and K. Kowal-Michalska, "Modal interactive buckling of thin-walled composite beam-columns regarding distortional deformations," International Journal of Engineering Science, vol. 37, no. 12, pp. 1577–1596, 1999.

Kolakowski Z, Krolak M (2006) Modal coupled instabilities of thin-walled composite plate and shell structures. Compos Struct 76:303–313
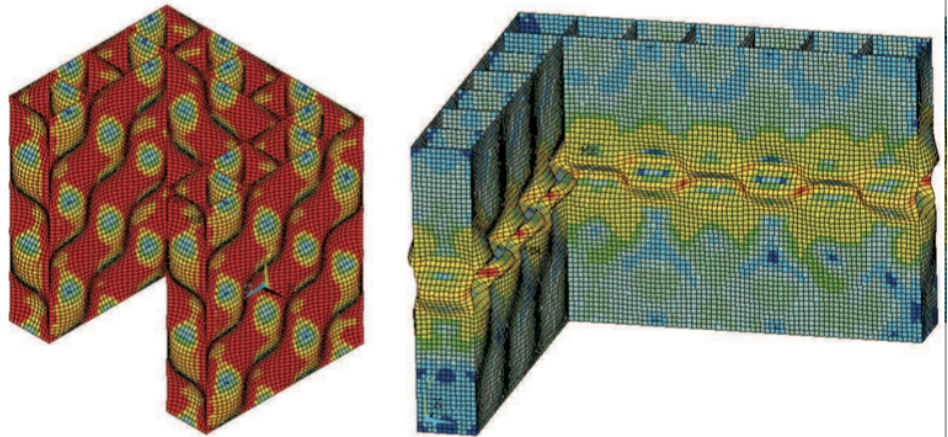
Krolak M, Kowal-Michalska K, Mania RJ, Swiniarski J (2007) Experimental tests of stability and load carrying capacity of compressed thin-walled multi-cell columns of triangular cross-section. Thin-Walled Struct 45(10–11):883–887

Krolak M, Kowal-Michalska K, Mania RJ, Świniarski J (2009) Stability and load carrying capacity of multi-cell thin-walled columns of rectangular cross-sections. J Theor Appl Mech 47(1):435–456

Krolak M, Mania RJ (2010) Critical and postcritical behavior of thin walled multicell column of open profile. Mech Mech Eng 14(2):281–290

Krolak M, Mania RJ (2010) Critical and postcritical behavior of thin walled multicell column of open profile. Mech Mech Eng 14(2):281–290

Krolak M, Mania RJ (eds) (2011) Static, dynamic and stability of structures. Vol. 1: Stability of thin-walled plate structures. A series of monographs, Technical University of Lodz Press