



## **Professor Werner Schneider**

See:

[http://www.researchgate.net/profile/Werner\\_Schneider](http://www.researchgate.net/profile/Werner_Schneider)

Institute for Structural Mechanics

University of Leipzig

Marschnerstr. 31, 04109 Leipzig, Germany

### **Selected publications:**

W. Schneider and R. Thiele. Stability of Slender Wind-Loaded Cylindrical Steel Shells. Proc. Int. Coll. on Stability and Ductility of Steel Structures, Vol I, 419-426, Nagoya, (1997).

W. Schneider, S. Bohm and R. Thiele. Failure Modes of Slender Wind-Loaded Cylindrical Shells. In: P. Mäkeläinen and P. Hassinen, editors, Light-Weight Steel and Aluminium Structures - ICSAS'99, 407-414, Elsevier, Amsterdam, (1999).

W. Schneider. Strukturanalyse schlanker stählerner Kreiszyinderschalen unter statischer Windbelastung (Structural Analysis of Slender Cylindrical Steel Shells under Wind Load; in German). Shaker-Verlag, Aachen, (2000).

W. Schneider, I. Timmel, K. Höhn and R. Thiele. Einfluss ringförmiger Vorbeulen im Fußbereich auf die Tragfähigkeit schlanker windbelasteter Kreiszyinderschalen (Influence of Ring-Shaped Geometrical Imperfections at the Base Area on the Load Bearing Capacity of Slender Cylindrical Steel Shells under Wind Load; in German). Leipzig Ann. Civ. Eng. Rep., 5, 405-423, (2000).

W. Schneider, K. Höhn, I. Timmel and R. Thiele (Institute of Statics and Dynamics of Structures Leipzig University, Leipzig, Germany), "Quasi-Collapse-Affine Imperfections at Slender Wind-Loaded Cylindrical Steel Shells", ECCM-2001, European Conference on Computational Mechanics, June 26-29, 2001 Cracow, Poland

W. Schneider. "Modelling of the Collapse Process of Quasi-Static Loaded Shell Structures." *Procs. of WCCM V*, Vienna, 2002.

W. Schneider and W. Zahlten, "Load-bearing behaviour and structural analysis of slender ring-stiffened cylindrical shells under quasi-static wind load", *Journal of Constructional Steel Research*, Vol. 60, No. 1, January 2004, pp. 125-146, doi:10.1016/j.jcsr.2003.08.002

W. Schneider, and Y. Ribakov, "Collapse Analysis of Thin Walled Cylindrical Steel Shells Subjected to Constant Shear Stress" *Computers and Structures*, Vol. 82 / 29-30, pp. 2463-2470, (2004).

W. Schneider and A. Brede, "Consistent Equivalent Geometric Imperfections for the Numerical Buckling Strength Verification of Cylindrical Shells under Uniform External Pressure", *Thin-Walled Structures* Vol. 43 / 2, pp. 175-188, (2005).

Werner Schneider, Ingo Timmel and Karsten Höhn, "The conception of quasi-collapse-affine imperfections: A new approach to unfavourable imperfections of thin-walled shell structures", *Thin-Walled Structures*, Vol. 43, No. 8, August 2005, pp. 1202-1224, doi:10.1016/j.tws.2005.03.003

W. Schneider, "Stimulating Equivalent Geometric Imperfections for the Numerical Buckling Strength Verification of Axially Compressed Cylindrical Steel Shells", *Computational Mechanics*, Vol. 37, No., 6, 2006, pp. 530-536, doi: 10.1007/s00466-005-0728-8

W. Schneider and M. Gettel, "Numerical Buckling Strength Verification of Cylindrical Steel Shell Structures Subject to Combined Loading", *Int. J. of Structural Stability and Dynamics*, Vol. 7, No.2, pp. 295-311, (2007).

Gettel M., Schneider W., Buckling strength of cantilevered cylindrical shells subjected to transverse load using Eurocode 3, *J. Constructional Steel Res.*, 63, 1467-1478, 2007

Werner Schneider, "Numerische Beulsicherheitsnachweise bei Schalenbeulfällen mit überkritischen Tragreserven", *Stahlbau*, 02/2008; 77(2):105 - 110. DOI: 10.1002/stab.200810014

Jerzy Ziółko Prof. Dr.-Ing. habil, Werner Schneider Prof. Dr.-Ing, Tomasz Białek Dipl.-Ing, Tomasz Heizig Dipl.-Ing, Marco Gettel Dr.-Ing, "Längenabhängigkeit des Beulwiderstandes umfangsdruckbeanspruchter stählerner Kreiszyinderschalen", *Stahlbau*, 12/2009; 78(12):947 - 951. DOI: 10.1002/stab.200910110

Werner Schneider, Marco Gettel, "Numerischer Beulsicherheitsnachweis für Kreiszyinderschalen unter Umfangsdruck – Neue Entwicklungen", *Stahlbau*, 11/2011; 80(11). DOI: 10.1002/stab.201101486