



**Professor Daniel Vasilikis**

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[https://www.researchgate.net/profile/Daniel\\_Vasilikis](https://www.researchgate.net/profile/Daniel_Vasilikis)

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Department of Mechanical Engineering

University of Thessaly, Greece

TechnipFMC UK, Aberdeen (No access to the complete on-line site)

#### **Education:**

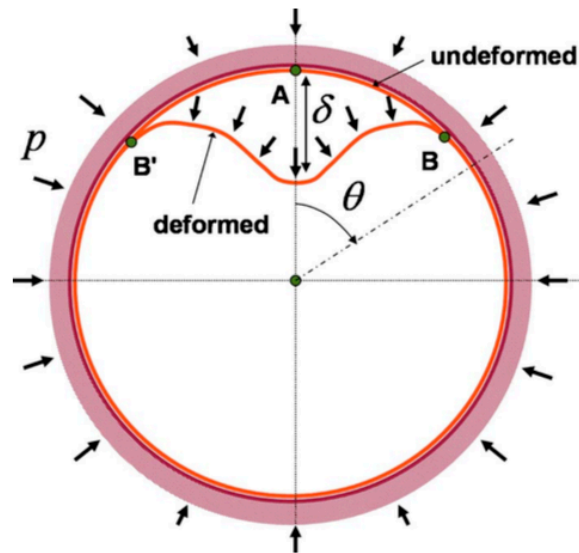
July 2006: Diploma in Mechanical Engineering (5-year professional degree), Department of Mechanical and Industrial Engineering, University of Thessaly, Greece. “Finite Element Analysis and Buckling of Tight-Fit-Pipes under External Pressure”, Advisor: Dr. S.A. Karamanos.

March 2008: Master of Science in Mechanical Engineering (M.Sc.), Department of Mechanical and Industrial Engineering, University of Thessaly, Greece. “Stability of Confined Thin-Walled Steel Cylinders under External Pressure”, Advisor: Dr. S.A. Karamanos.

January 2013: Doctor of Philosophy in Mechanical Engineering (Ph.D.), Department of Mechanical Engineering, University of Thessaly, Greece. “Structural Behavior and Stability of Cylindrical Steel Shells with Lateral Confinement”, Advisor: Dr. S.A. Karamanos.

#### **Research Interests:**

Computational Mechanics, Structural Stability, Analysis and Design of Shells, Finite Element, Inelastic Behavior of Materials and Structures.



**Fig. 1 Schematic representation of the buckling problem of an externally pressurized cylinder confined by the surrounding medium**

From: Daniel Vasilikis and Spyros A. Karamanos, “Buckling Design of Confined Steel Cylinders Under External Pressure”, ASME J. Pressure Vessel Technology, Vol. 133, No. 1, February 2011, 011205 (9 pages)

**Award:**

G.E.O. Widera Literature Award for co-authoring the Outstanding Technical Paper entitled “Buckling Design of Confined Steel Cylinders under External Pressure” published in 2011 in the ASME Journal of Pressure Vessel Technology.

**Selected Publications:**

Daniel Vasilikis and Spyros A. Karamanos, “Stability of confined thin-walled steel cylinders under external pressure”, *International Journal of Mechanical Sciences*, Vol. 51, No. 1, January 2009, pp. 21-32

Vasilikis, D. and Karamanos, S.A., “Buckling of Double-Wall Elastic Tubes under Bending”, 9th HSTAM International Congress on Mechanics, Limassol, Cyprus, July 2010.

Daniel Vasilikis and Spyros A. Karamanos, “Buckling Design of Confined Steel Cylinders Under External Pressure”, *ASME J. Pressure Vessel Technology*, Vol. 133, No. 1, February 2011, 011205 (9 pages)

Patricia Pappa, Daniel Vasilikis, Polynikis Vazouras and Spyros A. Karamanos, “On the seismic behavior and design of liquid storage tanks”, *COMPADYN2011, III ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, M. Papadrakakis, M. Fragiadakis and V. Plevris (Editors), Corfu, Greece, 25-28 May, 2011

Vasilikis, D. and Karamanos, S.A., “Buckling of Clad Pipes under Bending and External Pressure”, 30th International Conference on Ocean, Offshore and Arctic Engineering, ASME, OMAE2011-49470, Rotterdam, The Netherlands, June 2011.

Vasilikis, D. and Karamanos, S.A., “Numerical Simulation of Clad Pipe Structural Behavior under Bending Loading”, 7th GRACM International Congress on Computational Mechanics, Athens, Greece, June 2011.

Vasilikis, D. and Karamanos, S.A., “Wrinkling of Lined Pipes under Bending”, 22nd International Conference on Offshore (Ocean) and Polar Engineering, ISOPE2012-TCP-0748, Rhodes, Greece, June 2012.

Vasilikis, D. and Karamanos, S.A., “Mechanical Behavior and Wrinkling of Lined Pipes”, *International Journal of Solids and Structures*, Vol. 49, No. 23-24, pp. 3432-3446, November 2012.

Daniel Vasilikis, “Structural behavior and stability of cylindrical steel shells with lateral confinement”, Ph.D. dissertation, University of Thessaly (UTH), 2013

Daniel Vasilikis and Spyros A. Karamanos, “Mechanics of confined thin-walled cylinders subjected to external pressure”, *Applied Mechanics Reviews*, Vol. 66, No. 1, November 2013

Sjors H.J. van Es (1), Arnold M. Gresnigt (1), Daniel Vasilikis (2) and Spyros A. Karamanos, “Ultimate bending capacity of spiral-welded steel tubes – Part 1: Experiments”, *Thin-Walled Structures*, Vol. 102, pp 286-304, May 2016

Daniel Vasilikis, Spyros A. Karamanos, Sjors H.J. van Es and Arnold M. Gresnigt, “Ultimate bending capacity of spiral-welded steel tubes – Part 2: Predictions”, *Thin-Walled Structures*, Vol. 102, pp 305-319, May 2016