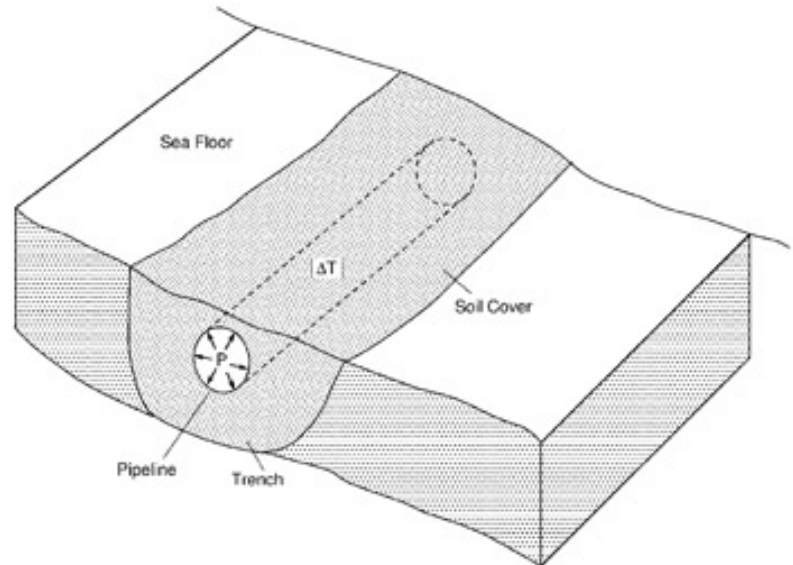


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Edmundo Corona, "Plastic Buckling and Collapse Under Axial Compression", Chapter 11 in *Mechanics of Offshore Pipelines: Buckling and Collapse*, Vol. 1 (Elsevier, 2007)

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**Selected publications:**

E. Corona and S. Kyriakides, "An unusual mode of collapse of tubes under combined bending and pressure", *ASME, J. Pressure Vessel Technol.*, 109, 302-304 (1987).

Corona E. & Kyriakides S. (1988). "On the collapse of inelastic tubes under combined bending and pressure" *Int. J. Solids and Structures*, 24(5), 505-535.

Corona, E. and Kyriakides, S (1988b): "Collapse of pipelines under combined bending and external pressure", *Proceeding Int. Conf. on the Behaviour of Offshore Structures*, vol. 3, pp 953-964, Trondheim, Norway.

Edmundo Corona and Stelios Kyriakides (Engineering Mechanics Research Laboratory, Department of Aerospace Engineering and Engineering Mechanics, The University of Texas at Austin, Austin, Texas 78712, USA), "An experimental investigation of the degradation and buckling of circular tubes under cyclic bending and external pressure", *Thin-Walled Structures*, Vol. 12, No. 3, 1991, pp. 229-263, doi:10.1016/0263-8231(91)90048-N

Edmundo Corona and Ashok Rodrigues (University of Notre Dame, Department of Aerospace and Mechanical Engineering, Notre Dame, IN 46556-5637, U.S.A.), "Bending of long cross-ply composite circular cylinders", *Composites Engineering*, Vol. 5, No. 2, 1995, pp. 163-179, 181-182, doi:10.1016/0961-9526(95)90711-J

Corona, E., and Vaze, S. P., 1996, "Buckling of elastic-plastic square tubes under bending," *Int. J. Mech. Sci.*, 38, No. 7, pp. 753–775.

Corona E., "Dome Reversal of Metal Beverage Containers," *J. of Pressure Vessel Tech.*, 120-4, November 1998, pp. 456-461.

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"Yield anisotropy effects on buckling of circular tubes under bending", *International Journal of Solids and Structures*, Vol. 43, Nos. 22-23, November 2006, pp. 7099-7118, doi:10.1016/j.ijsolstr.2006.03.005

-----Book

**Mechanics of offshore pipelines: Buckling and collapse, Volume 1: Buckling and Collapse** By Stelios Kyriakides, Edmundo Corona, 2007, Elsevier BV, ISBN: 978-0-08-046732-0

A. Limam, L.-H. Lee, E. Corona, and S. Kyriakides, "Inelastic wrinkling and collapse of tubes under combined bending and internal pressure," *International Journal of Mechanical Sciences*, vol. 52, pp. 637–647, May 2010.