



Professor Arnold M. (Nol) Gresnigt

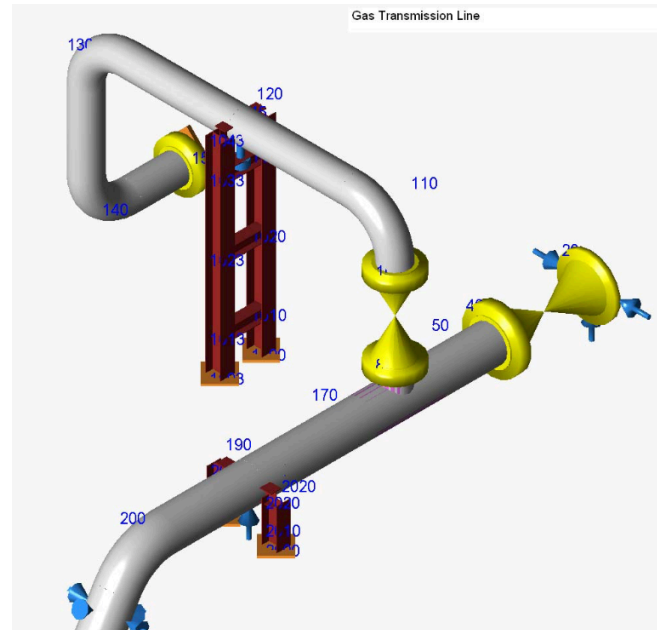


Figure 7: Detail of Gas transmission line, showing steel structure and node numbers.

From: Gert j. Dijkstra, Benjamin Francis, Hildo van der Heden and Arnold M. Gresnigt, Industrial steel pipe system under seismic loading: A comparison of European and American design codes”, COMPDYN 2011, 3rd ECCOMAS Computational Methods in Structural Dynamics and Earthquake Engineering, edited by M. Papadrakakis, M. Fragiadakis and V. Plevris, Corfu, Greece, 25-28 May 2011

See:

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

<http://pressurevesseltech.asmedigitalcollection.asme.org/mobile/solrsearchresults.aspx?q=Arnold%20M.%20Gresnigt>

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Selected Publications:

- Gresnigt, A. M., 1986, “Plastic design of buried steel pipelines in settlement areas”, Heron, Vol. 31 No. 4
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- S. A. Karamanos, E. Giakoumatos and A. M. Gresnigt, “Nonlinear Response and Failure of Steel Elbows Under In-Plane Bending and Pressure”, ASME J. Pressure Vessel Technol., Vol. 125, No. 4, November 2003, pp. 393-402
- S.A. Karamanos, D. Tsouvalas and A.M. Gresnigt, “Ultimate Bending Capacity and Buckling of Pressurized 90 deg. Steel Elbows”, ASME J. Pressure Vessel Technol., Vol. 128, No. 3, July 2005, pp. 348-356
- E. Dama, S.A. Karamanos and A.M. Gresnigt, “Failure of locally buckled pipelines”, ASME Journal of Pressure Vessel Technology, Vol. 129, No. 2, pp 272-279, July 2006
- Hilberink, A., Gresnigt, A.M., Sluys, L.J., 2010. Liner wrinkling of lined pipe under compression: a numerical and experimental investigation. In: Proc. 29th Int’l Conf. Ocean, Offshore and Arctic Eng., OMAE2010-20285, Shanghai, June 2010.

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Hilberink, A., Gresnigt, A.M., Sluys, L.J., 2011. Mechanical behaviour of lined pipe during bending: numerical and experimental results compared. In: Proc. 30th Int’l Conf. Ocean, Offshore & Arctic Eng., OMAE2011-49434, Rotterdam, June 2011

Van Es, S.H.J., Gresnigt, A.M., Kolstein, M.H., Bijlaard, F.S.K., Local buckling of spirally welded tubes - Analysis of imperfections and physical testing. Proc. Int. Offshore and Polar Engineering Conference (ISOPE), Anchorage, Alaska, 2013

Van Es S.H.J., Gresnigt A.M., Kolstein M.H. and Bijlaard F.S.K., “Strain based design of spirally welded pipes, local buckling in 4-point bending”, Proceedings of the Twenty-fourth (2014) International Ocean and Polar Engineering Conference, Busan, Korea (15-20/06), 2014.

Sjors H.J. van Es, Arnold M. Gresnigt, Daniel Vasilikis 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