



Professor Torgeir Moan

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See:
<https://www.ntnu.edu/employees/torgeir.moan> <https://scholar.google.no/citations?user=sSepcmIAAAJ&hl=en>
https://en.wikipedia.org/wiki/Torgeir_Moan https://www.researchgate.net/profile/Torgeir_Moan

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Selected Publications:

Soreide, T. H., Bergan, P. G., and Moan, T., 1976, “Ultimate Collapse Behaviour of Stiffened Plates Using Alternate F. E. Formulations,” *Steel Plated Structures*, P.J.Dowling, ed., Crosby Lockwood Staples, London, pp. 618–632.

Soreide, T. H., Moan, T., and Nordsve, N. T., 1978, “On the Behaviour and Design of Stiffened Plates in the Ultimate Limit Stat,” *Int. J. Shipbuilding Progress*, 22, pp. 238–244.

Nils Terje Nordsve and Torgeir Moan, “Numerical collapse analysis of compression members”, *Computers & Structures*, Vol. 12, No. 4, October 1980, pp. 521-531

G. Jiao and T. Moan, Probabilistic analysis of fatigue due to gaussian load processes, *Probab. Eng. Mech.* 5 (2) (1990) 76–83.

Bai, Y., Igland, R. T. and Moan, T. (1994): “Ultimate Limit States of Pipes under Tension and Bending”, *International Journal of Offshore and Polar Engineering*, vol. 4, pp. 312-319.

Bai Y, Igland RT, Moan T. Collapse of thick tubes under combined tension and bending. *J Constr Steel Res.* 1995; 2(3): 233–257

Rigo, P., Moan, T., Frieze, P.A. and Chryssanthopoulos, M. (1995). Benchmarking of ultimate strength prediction for longitudinally stiffened panels, *Proc. of the 6th International Symposium on Practical Design of Ship and Mobile Units (PRADS'95)*, Vol.2, Seoul, September, pp. 869-882.

Y. Bai, R. T. Igland, and T. Moan, “Tube collapse under combined external pressure, tension and bending,” *Marine Structures*, vol. 10, no. 5, pp. 389–410, 1997.

Igland, R., Moan, T., 2000. Reliability analysis of pipelines during laying, considering ultimate strength under combined loads. *J. Offshore Mechanics and Arctic Engineering*, 122(1): 40–46.

Yufeng Zha and Torgeir Moan, “Ultimate strength of stiffened aluminium panels with predominantly torsional failure modes”, *Thin-Walled Structures*, Vol. 39, No. 8, pp 631-648, August 2001

Zha, Y. and Torgeir Moan, ‘Experimental and numerical prediction of collapse of flatbar stiffeners in aluminum panels’, *Journal of Structural Engineering*, Volume 129, pp 160-168, 2003

Moan, T., Amdahl, J., Wang, X.Z. and Spencer, J., 2003 . “Risk Assessment of FPSOs with Emphasis on Collision,” SNAME Transactions, 110:307-339.

H.K.K. Amlashi and T. Moan. On the strength assessment of pitted stiffened plates under biaxial compression loading. In 24th international conference on offshore mechanics and arctic engineering, Halkidiki, Greece, 2005

Moan T, Shu Z, Drummen I, Amlashi H. Comparative reliability analysis of ships —considering different ship types and the effect of ship operations on loads. In: SNAME annual meeting, Ft. Lauderdale, FL; 2006.

Hadi K.K. Amlashi and Torgeir Moan, “Ultimate strength analysis of a bulk carrier hull girder under alternate hold loading condition – A case study: Part 1: Nonlinear finite element modeling and ultimate hull girder capacity”, Marine Structures, Vol. 21, No. 4. pp 327-352, October 2008

Hadi K.K. Amlashi and Torgeir Moan, “Ultimate strength analysis of a bulk carrier hull girder under alternate hold loading condition, Part 2: Stress distribution in the double bottom and simplified approaches”, Marine Structures, Vol. 22, No. 3, pp 522-544, July 2009

Z. Shu, T. Moan, Ultimate strength of a capesize bulk Carrier in hogging and alternate hold loading condition, Proceedings of 29th International Conference on Ocean, Offshore and Arctic Engineering, vol. 103 (2010), pp. 441-449

M. Karimirad and T. Moan, “Wave and wind induced dynamic response of a spar-type offshore wind turbine,” Journal of Waterway, Port, Coastal, and Ocean Engineering, vol. 138, no. 1, pp. 9–20, 2011.

M. Karimirad and T. Moan, “Stochastic dynamic response analysis of a tension leg spar-type offshore wind turbine,” Wind Energy, vol. 16, no. 6, pp. 953–973, 2013.

Zhao Jun Song, Ming Cai Xu, Torgeir Moan and Jin Pan, “Dimensional and similitude analysis of stiffened panels under longitudinal compression considering buckling behaviours”, Ocean Engineering, Vol. 187, Article 106188, 1 September 2019

Shi Deng, Haojie Ren, Yuwang Xu, Shixiao Fu, Torgeir Moan and Zhen Gao, “Experimental study of vortex-induced vibration of a twin-tube submerged floating tunnel segment model”, Journal of Fluids and Structures, Vol. 94, 102908, 2020