



Professor Andrew T. Myers

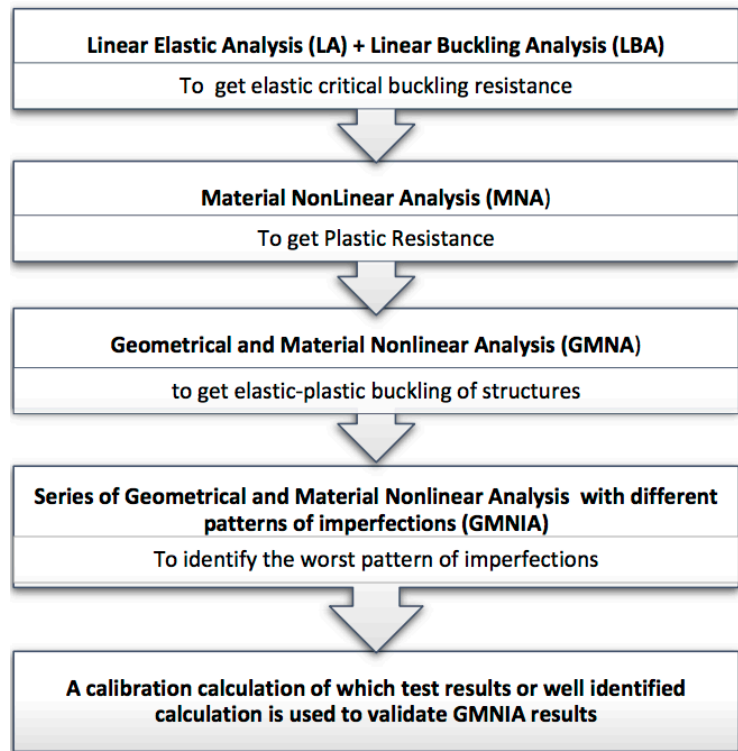


Figure 1: Design by GMNIA analyses according to EC3 (ECCS 2013)

From: Abdullah Mahmoud, Shahabeddin Torabian, Angelina Jay, Fariborz Mirzaie, Andrew T. Myers, Eric Smith and Benjamin W. Schafer, "Predicting the buckling strength of spirally welded tapered tubes under flexural bending using reference resistance design, Proceedings of the Annual Stability Conference Structural Stability Research Council (SSRC), Baltimore, Maryland, April 10-13, 2018

See:

<https://www.civ.neu.edu/people/myers-andrew>

<https://scholar.google.com/citations?user=adUcdJwAAAAJ&hl=en>

<https://web.northeastern.edu/atm/>

https://www.researchgate.net/scientific-contributions/2135746459_Andrew_T_Myers

Civil and Environmental Engineering
Northeastern University, Boston, Massachusetts, USA

Biography:

Prior to joining Northeastern, Andrew worked for two years at AIR Worldwide in San Francisco, where he consulted on site-specific natural catastrophe risk assessments. He received his M.S. (2006) and Ph.D. (2009) at Stanford University and his B.S. (2004) from Johns Hopkins University; all three degrees are in Civil and Environmental Engineering with a focus on Structural Engineering. His interests include multi-scale experimental testing of structures, computational mechanics-based simulation, probabilistic modeling of structural and natural systems. He is a registered professional engineer in California.

Honors & Awards:

2016 NSF CAREER Award

2013 CEE Excellence in Teaching Award

2007 NSF East Asia and Pacific Summer Institute Fellowship

Selected Publications:

Kai Wei, Sanjay R. Arwade and Andrew T. Myers, "Incremental wind-wave analysis of the structural capacity of wind turbine support structures under extreme loading", *Engineering Structures*, Vol. 79, pp 58-69, 2014

Jay, A., Myers, A. T. (2014) "Imperfection Analysis and Optimized Design of Tapered Spirally-welded Wind Turbine Towers". Proceedings of the Annual Stability Conference SSRC'14, Toronto-Canada.

V. Valamanesh, A.T. Myers, S.R. Arwade, *Multivariate Analysis of Extreme Metocean Conditions for Offshore Wind Turbines*, Structural Safety, Elsevier, 2015

Mahmoud, A., Torabian, S., Jay, A., Myers, A. T., Smith, E., Schafer, B. W. (2015) "Modeling protocols for elastic buckling and collapse analysis of spirally welded circular hollow thin-walled sections" Proceedings of the Annual Stability conference, SSRC'15, Nashville-Tennessee, USA

Jay, A., Torabian, S., Mahmoud, A., Myers, A. T., Schafer, B.W., Smith E. (2015) "Static Flexural Local Buckling Tests on Large Scale Spirally Welded Tubes for use as Wind Turbine Towers". Structures Congress 2015, Portland-Oregon, USA.

Angelina Jay, Andrew T. Myers, Shahabeddin Torabian, Abdullah Mahmoud, Eric Smith, Nestor Agbayani and Ben W. Schafer, "Spirally welded steel wind towers: Buckling experiments, analyses, and research needs", *Journal of Constructional Steel Research*, Vol. 125, pp 218-226, October 2016

Angelina Jay, Andrew T. Myers, Fariborz Mirzaie, Abdullah Mahmoud, Shahabeddin Torabian, Eric Smith and Benjamin W. Schafer, "Large-scale bending tests of slender tapered spirally welded steel tubes", *ASCE Journal of Structural Engineering*, Vol. 142, No. 12, December 2016

Mahmoud, A., Torabian, S., Jay, A., Mirzaie, F., Myers, A. T., Smith, E., Schafer, B. W. (2016) "Collapse Analyses on Spirally Welded Tapered Tubes using EC3 Generated Imperfections" Proceedings of the Annual Stability conference, SSRC'16, Orlando-Florida, USA.

Mahmoud, A., Mirzaie, F., Torabian, S., Jay, A., Myers, A. T., Smith, E., Schafer, B. W. (2016) "Collapse Analysis of Spirally Welded Tapered Tubes under Flexural Moments using Measured and Generated Imperfections". Proceedings of the 7th International Conference on Coupled Instabilities in Metal Structures. Baltimore-Maryland, USA.

Kai Wei, Andrew T. Myers and Sanjay R. Arwade, "Dynamic effects in the response of offshore wind turbines supported by jackets under wave loading", *Engineering Structures*, Vol. 142, pp 36-45, July 2017

Fariborz Mirzaie, Andrew T. Myers, Angelina Jay, Abdulla Mahmoud, Shahabeddin Torabian, Eric Smith and Benjamin W. Schafer, "Imperfection measurements to predict buckling behavior of slender steel tubes", *Thin-Walled Structures*, Vol. 123, pp 270-281, February 2018

Abdullah Mahmoud, Shahabeddin Torabian, Angelina Jay, Fariborz Mirzaie, Andrew T. Myers, Eric Smith and Benjamin W. Schafer, "Modeling the flexural collapse of thin-walled spirally welded tapered tubes", *ASCE Journal of Structural Engineering*, Vol. 144, No. 2, February 2018

S. Hallowell, A.T. Myers, S.R. Arwade, W. Pang, P. Rawal, E. Hines, J.F. Hajjar, C.Qiao, V. Valamanesh, K. Wei, W. Carswell, C. Fontana, *Hurricane Risk Assessment of Offshore Wind Turbines*, Renewable Energy, Elsevier, 2018

Abdullah Mahmoud, Shahabeddin Torabian, Angelina Jay, Fariborz Mirzaie, Andrew T. Myers, Eric Smith and Benjamin W. Schafer, "Predicting the buckling strength of spirally welded tapered tubes under flexural bending using reference resistance design, Proceedings of the Annual Stability Conference Structural Stability Research Council (SSRC), Baltimore, Maryland, April 10-13, 2018