

6. REFERENCES

- Belytschko, T., Liu, W. K., Moran, B., and Elkhodary, K. Nonlinear finite elements for continua and structures. John Wiley & sons, 2013.
- Brinkmeyer, A., Pellegrino, S., & Weaver, P. M. (2016). Effects of Long-Term Stowage on the Deployment of Bistable Tape Springs. *Journal of Applied Mechanics*, 83(1), Art. No. 011008.
- Calladine, C. R. (1988). *The Theory of Thin Shell Structures 1888–1988*.
https://doi.org/10.1243/PIME_PROC_1988_202_020_02
- Gonçalves, R., Ritto-Corrêa, M., & Camotim, D. (2010). A large displacement and finite rotation thin-walled beam formulation including cross-section deformation. *Computer Methods in Applied Mechanics and Engineering*, 199, 1627–1643. <https://doi.org/10.1016/j.cma.2010.01.006>
- Guinot, F., Bourgeois, S., Cochelin, B., & Blanchard, L. (2012). A planar rod model with flexible thin-walled cross-sections. Application to the folding of tape springs. *International Journal of Solids and Structures*, 49(1), 73–86.
<https://doi.org/10.1016/j.ijsolstr.2011.09.011>
- Hoffait, S., Brûls, O., Granville, D., Cugnon, F., & Kerschen, G. (2010). Dynamic analysis of the self-locking phenomenon in tape-spring hinges. *Acta Astronautica*, 66(7), 1125–1132.
<https://doi.org/10.1016/j.actaastro.2009.10.001>

- Mallikarachchi, H. M. Y. C. (2011). *Thin-walled composite deployable booms with tape-spring hinges* [Thesis, University of Cambridge].
<https://doi.org/10.17863/CAM.14004>
- Mallikarachchi, H. M. Y. C., & Pellegrino, S. (2012). Quasi-Static Folding and Deployment of Ultrathin Composite Tape-Spring Hinges. *Journal of Spacecraft and Rockets*. <https://doi.org/10.2514/1.47321>
- Mallol, P., & Tibert, G. (2013). Deployment Modeling and Experimental Testing of a Bi-stable Composite Boom for Small Satellites. In *54th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference*. American Institute of Aeronautics and Astronautics.
<https://doi.org/10.2514/6.2013-1672>
- Pedivellano, A., & Pellegrino, S. (2019). Stability Analysis of Coiled Tape Springs. In *AIAA Scitech 2019 Forum*. American Institute of Aeronautics and Astronautics. <https://doi.org/10.2514/6.2019-1523>
- Peterson, L., & Mobrem, M. (2018). Structural Analysis Methodology for Space Deployable Structures using a High-Performance Parallel Nonlinear Finite Element Solver. In *4th AIAA Spacecraft Structures Conference*. American Institute of Aeronautics and Astronautics. <https://doi.org/10.2514/6.2017-0852>
- Pimenta, P., & Campello, E. M. B. (2003). A fully nonlinear multi-parameter rod model incorporating general cross-section in-plane changes and out-of-plane warping. *Latin American Journal of Solids and Structures*, *1*, 119–140.

- Sadowski, A. J. (2019). On the advantages of hybrid beam-shell structural finite element models for the efficient analysis of metal wind turbine support towers. *Finite Elements in Analysis and Design*, 162, 19–33. <https://doi.org/10.1016/j.finel.2019.05.002>
- Seffen, K. A., & Pellegrino, S. (1999). Deployment dynamics of tape springs. *Proceedings of the Royal Society of London. Series A: Mathematical, Physical and Engineering Sciences*, 455(1983), 1003–1048. <https://doi.org/10.1098/rspa.1999.0347>
- Seffen, K. A., Wang, B., & Guest, S. D. (2019). Folded orthotropic tape-springs. *Journal of the Mechanics and Physics of Solids*, 123, 138–148.
- Seffen, K. A., You, Z., & Pellegrino, S. (2000). Folding and deployment of curved tape springs. *International Journal of Mechanical Sciences*, 42(10), 2055–2073. [https://doi.org/10.1016/S0020-7403\(99\)00056-9](https://doi.org/10.1016/S0020-7403(99)00056-9)
- Soykasap, Ö. (2007). Analysis of tape spring hinges. *International Journal of Mechanical Sciences*, 49(7), 853–860. <https://doi.org/10.1016/j.ijmecsci.2006.11.013>
- S, S., Umakanthan, S., & V, K. (2011). Beam and shell element model for advanced analysis of steel structural members. *Journal of Constructional Steel Research*, 67, 1789. <https://doi.org/10.1016/j.jcsr.2011.05.003>

Wilson, L., Gdoutos, E. E., & Pellegrino, S. (2020). Tension-Stabilized Coiling of Isotropic Tape Springs. *International Journal of Solids and Structures*, 188–189, 103–117. <https://doi.org/10.1016/j.ijsolstr.2019.09.010>

Wilson, L. L. (2017). *Analysis of Packaging and Deployment of Ultralight Space Structures* [Phd, California Institute of Technology]. <https://doi.org/10.7907/Z9B27S96>

Živković, M., Kojic, M., Slavković, R., & Grujović, N. (2001). A general beam finite element with deformable cross-section. *Computer Methods in Applied Mechanics and Engineering*, 190(20–21), 2651–2680. [https://doi.org/10.1016/S0045-7825\(00\)00259-0](https://doi.org/10.1016/S0045-7825(00)00259-0)