Accepted Manuscript

A finite deformation theory for the climbing habits and attachment of twining plants.

Yingchao Zhang, Jian Wu, Yinji Ma, Hang Chen, Ying Chen, Bingwei Lu, Xue Feng

PII: S0022-5096(18)30018-8 DOI: 10.1016/j.jmps.2018.03.021

Reference: MPS 3314

To appear in: Journal of the Mechanics and Physics of Solids

Received date: 8 January 2018 Revised date: 11 March 2018 Accepted date: 28 March 2018



Please cite this article as: Yingchao Zhang, Jian Wu, Yinji Ma, Hang Chen, Ying Chen, Bingwei Lu, Xue Feng, A finite deformation theory for the climbing habits and attachment of twining plants., *Journal of the Mechanics and Physics of Solids* (2018), doi: 10.1016/j.jmps.2018.03.021

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Highlights

- Twining plants have a tendency to decrease the twining angle and the curvature to maintain stability.
- The elongation in the stem is important for enhancing the interfacial strength.
- There both exist maximum values of the elongation ratio and the support radius for twiners to climb.

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