## **Accepted Manuscript**

Transverse vibration and instability of axially travelling web subjected to non-homogeneous tension

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PII: \$0020-7403(17)31348-6

DOI: 10.1016/j.ijmecsci.2017.09.047

Reference: MS 3958

To appear in: International Journal of Mechanical Sciences

Received date: 22 May 2017

Revised date: 19 September 2017 Accepted date: 25 September 2017



Please cite this article as: Liang Ma, Jiankui Chen, Wei Tang, Zhouping Yin, Transverse vibration and instability of axially travelling web subjected to non-homogeneous tension, *International Journal of Mechanical Sciences* (2017), doi: 10.1016/j.ijmecsci.2017.09.047

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#### ACCEPTED MANUSCRIPT

### **Highlights**

- The travelling web subjected to parabolic tension profile is investigated.
- The critical velocities may be greatly decreased because of the tension inhomogeneity.
- A small tension inhomogeneity is enough to change the mode shapes completely.
- The web with larger aspect ratio or higher average tension is more sensitive to the tension inhomogeneity.

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