Accepted Manuscript

Moment-curvature based elasto-plastic model for large deflection of micro-beams under combined loading

Bhakti N. Patel, D. Pandit, Sivakumar M. Srinivasan

 PII:
 S0020-7403(17)30687-2

 DOI:
 10.1016/j.ijmecsci.2017.10.010

 Reference:
 MS 3976

To appear in: International Journal of Mechanical Sciences

Received date:19 March 2017Revised date:15 July 2017Accepted date:7 October 2017

Please cite this article as: Bhakti N. Patel, D. Pandit, Sivakumar M. Srinivasan, Moment-curvature based elasto-plastic model for large deflection of micro-beams under combined loading, *International Journal of Mechanical Sciences* (2017), doi: 10.1016/j.ijmecsci.2017.10.010

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Highlights

- A simple explicit elasto-plastic moment-curvature relation is developed
- Large deflection of micro-beams under combined load is studied
- An incremental method coupled with Runge-Kutta 4th order scheme is used
- Springback phenomena is analysed

Download English Version:

https://daneshyari.com/en/article/5015825

Download Persian Version:

https://daneshyari.com/article/5015825

Daneshyari.com