

Accepted Manuscript

Nonlinear dynamics of an adaptive origami-stent system

Guilherme V. Rodrigues , Larissa M. Fonseca , Marcelo A. Savi ,
Alberto Paiva

PII: S0020-7403(17)30887-1
DOI: [10.1016/j.ijmecsci.2017.08.050](https://doi.org/10.1016/j.ijmecsci.2017.08.050)
Reference: MS 3902



To appear in: *International Journal of Mechanical Sciences*

Received date: 6 April 2017
Revised date: 20 August 2017
Accepted date: 26 August 2017

Please cite this article as: Guilherme V. Rodrigues , Larissa M. Fonseca , Marcelo A. Savi ,
Alberto Paiva , Nonlinear dynamics of an adaptive origami-stent system, *International Journal of Mechanical Sciences* (2017), doi: [10.1016/j.ijmecsci.2017.08.050](https://doi.org/10.1016/j.ijmecsci.2017.08.050)

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.

Highlights

- Dynamical analysis of origami systems.
- Geometrical and kinematic analysis of origami systems.
- Proposition of an archetypal single-degree of freedom model to describe origami-stent dynamics.
- Numerical simulations considering different thermomechanical loadings that represent distinct operational conditions.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5016015>

Download Persian Version:

<https://daneshyari.com/article/5016015>

[Daneshyari.com](https://daneshyari.com)