## Accepted Manuscript

Curvature sensitive analysis of axially compressed cylindrical tubes with corrugated surface using isogeometric analysis and experiment

Takuma Imai, Tadahiro Shibutani, Kazumi Matsui, Seitoku Kumagai, Dang Tien Tran et al.

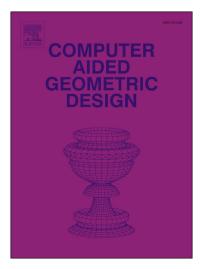
 PII:
 S0167-8396(16)30158-3

 DOI:
 http://dx.doi.org/10.1016/j.cagd.2016.10.002

 Reference:
 COMAID 1589

To appear in: Computer Aided Geometric Design

Received date:21 April 2016Revised date:12 August 2016Accepted date:3 October 2016



Please cite this article in press as: Imai, T., et al. Curvature sensitive analysis of axially compressed cylindrical tubes with corrugated surface using isogeometric analysis and experiment. *Comput. Aided Geom. Des.* (2016), http://dx.doi.org/10.1016/j.cagd.2016.10.002

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

- Our method constructs shell volume where reference surface is exactly the midsurface.
- We find that there are three patterns of curvature distribution in the corrugation.
- These three patterns significantly affect the energy absorption characteristics.Most importantly, this research is the integration of CAGD, CAE, and CAM techniques.

Download English Version:

## https://daneshyari.com/en/article/4952755

Download Persian Version:

https://daneshyari.com/article/4952755

Daneshyari.com