Accepted Manuscript

Isogeometric collocation for three-dimensional geometrically exact shear-deformable beams

Enzo Marino

PII:	\$0045-7825(16)30208-0
DOI:	http://dx.doi.org/10.1016/j.cma.2016.04.016
Reference:	CMA 10937

To appear in: Comput. Methods Appl. Mech. Engrg.

Received date: 23 January 2016 Revised date: 13 April 2016 Accepted date: 15 April 2016



Please cite this article as: E. Marino, Isogeometric collocation for three-dimensional geometrically exact shear-deformable beams, *Comput. Methods Appl. Mech. Engrg.* (2016), http://dx.doi.org/10.1016/j.cma.2016.04.016

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

- We extend the isogeometric collocation to the geometrically exact beams
- Consistent linerization of the strong form of the governing equations is derived
- Incremental rotations are parametrized through Eulerian rotation vectors
- Numerical tests show efficiency and high accuracy

Download English Version:

https://daneshyari.com/en/article/6916086

Download Persian Version:

https://daneshyari.com/article/6916086

Daneshyari.com