## Accepted Manuscript

Hierarchical one-dimensional finite elements for the thermal stress analysis of three-dimensional functionally graded beams

G. De Pietro, Y. Hui, G. Giunta, S. Belouettar, E. Carrera, H. Hu

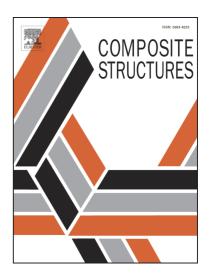
PII: S0263-8223(16)30479-2

DOI: http://dx.doi.org/10.1016/j.compstruct.2016.06.012

Reference: COST 7534

To appear in: Composite Structures

Received Date: 3 May 2016 Revised Date: 30 May 2016 Accepted Date: 3 June 2016



Please cite this article as: De Pietro, G., Hui, Y., Giunta, G., Belouettar, S., Carrera, E., Hu, H., Hierarchical one-dimensional finite elements for the thermal stress analysis of three-dimensional functionally graded beams, *Composite Structures* (2016), doi: http://dx.doi.org/10.1016/j.compstruct.2016.06.012

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**

# Hierarchical one-dimensional finite elements for the thermal stress analysis of three-dimensional functionally graded beams

#### G. De Pietro,\*

Luxembourg Institute of Science and Technology, 5, avenue des Hauts-Fourneaux, L-4362 Esch-sur-Alzette, Luxembourg and Politecnico di Torino, c.so Duca degli Abruzzi 24, 10129 Turin, Italy

#### Y. Hui !

Luxembourg Institute of Science and Technology,
5, avenue des Hauts-Fourneaux, L-4362 Esch-sur-Alzette, Luxembourg and
Politecnico di Torino, c.so Duca degli Abruzzi 24, 10129 Turin, Italy and
School of Civil Engineering, Wuhan University,
8 South Road of East Lake, 430072 Wuhan, PR China

G. Giunta<sup>‡</sup> S. Belouettar<sup>§</sup>
Luxembourg Institute of Science and Technology,
5, avenue des Hauts-Fourneaux, L-4362 Esch-sur-Alzette, Luxembourg

E. Carrera,¶
Politecnico di Torino,
c.so Duca degli Abruzzi 24, 10129 Turin, Italy

#### H. Hu,

School of Civil Engineering, Wuhan University, 8 South Road of East Lake, 430072 Wuhan, PR China

Author for correspondence: Gabriele De Pietro, Ph.D. student, Materials Research and Technology Department, Luxembourg Institute of Science and Technology, 5, avenue des Hauts-Fourneaux, L-4362 Esch-sur-Alzette, Luxembourg. tel: +352 275 888 1,

tel: +352 275 888 1, fax: +352 275 885,

e-mail: gabriele.depietro@list.lu

<sup>\*</sup>Ph.D. student.

 $<sup>^\</sup>dagger \mathrm{Ph.D.}$  student.

 $<sup>\</sup>prescript{\ddagger} \ensuremath{\text{Research}}$  scientist.

<sup>§</sup>Research Scientist.

<sup>¶</sup>Full Professor.

Full Professor.

#### Download English Version:

# https://daneshyari.com/en/article/6705434

Download Persian Version:

https://daneshyari.com/article/6705434

<u>Daneshyari.com</u>