

Accepted Manuscript

Title: Stress-driven integral elastic theory for torsion of nano-beams

Author: Raffaele Barretta Marina Diaco Luciano Feo
Raimondo Luciano Francesco Marotti de Sciarra Rosa Penna



PII: S0093-6413(17)30365-8
DOI: <https://doi.org/doi:10.1016/j.mechrescom.2017.11.004>
Reference: MRC 3231

To appear in:

Received date: 9-7-2017
Accepted date: 19-11-2017

Please cite this article as: Raffaele Barretta, Marina Diaco, Luciano Feo, Raimondo Luciano, Francesco Marotti de Sciarra, Rosa Penna, Stress-driven integral elastic theory for torsion of nano-beams, *Mechanics Research Communications* (2017), <https://doi.org/10.1016/j.mechrescom.2017.11.004>

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

- Inapplicability of Eringen strain-driven nonlocal theory to torsional problems.
- Stress-driven nonlocal elasticity for torsion of functionally graded nano-beams.
- Exact twisting interaction and rotation solutions of nano-beams.
- New benchmarks for nonlocal computational mechanics.

Accepted Manuscript

Download English Version:

<https://daneshyari.com/en/article/7178788>

Download Persian Version:

<https://daneshyari.com/article/7178788>

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