## Accepted Manuscript

Statics and dynamics of nanorods embedded in an elastic medium: Nonlocal elasticity and lattice formulations

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PII: S0997-7538(17)30190-0

DOI: 10.1016/j.euromechsol.2017.09.009

Reference: EJMSOL 3494

To appear in: European Journal of Mechanics / A Solids

Received Date: 5 March 2017

Revised Date: 22 September 2017

Accepted Date: 24 September 2017

Please cite this article as: Challamel, Noë., Aydogdu, M., Elishakoff, I., Statics and dynamics of nanorods embedded in an elastic medium: Nonlocal elasticity and lattice formulations, *European Journal of Mechanics / A Solids* (2017), doi: 10.1016/j.euromechsol.2017.09.009.

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