

Accepted Manuscript

A method for determination of intrinsic material length base on strain gradient study in spherical indentation

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PII: S0020-7403(17)31228-6
DOI: [10.1016/j.ijmecsci.2017.10.016](https://doi.org/10.1016/j.ijmecsci.2017.10.016)
Reference: MS 3982



To appear in: *International Journal of Mechanical Sciences*

Received date: 8 May 2017
Revised date: 11 September 2017
Accepted date: 11 October 2017

Please cite this article as: Zhankun Sun , Fuguo Li , Jun Cao , Xinkai Ma , Jinghui Li , A method for determination of intrinsic material length base on strain gradient study in spherical indentation, *International Journal of Mechanical Sciences* (2017), doi: [10.1016/j.ijmecsci.2017.10.016](https://doi.org/10.1016/j.ijmecsci.2017.10.016)

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Highlights

- Strain gradient in spherical indentation depends on indenter radius and penetration.
- Strain gradient in spherical indentation increases rapidly under deep penetration.
- Intrinsic length is determined with spherical indentation under large penetration.

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