



Professor Seyed Amir Hossein Hosseini

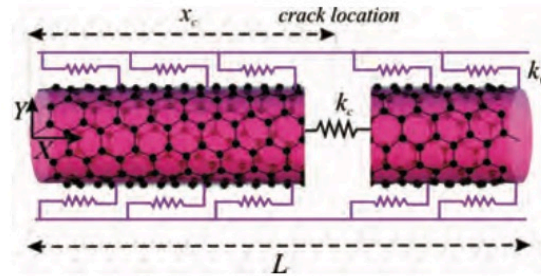


Fig. 1. Schematic diagram of a cracked nanorod (CNT) in an elastic foundation.

From: Hosseini, S.A.H., Rahmani, O., Nikmehr, M. and Golpayegani, I.F. (2016), "Axial Vibration of Cracked Nanorods Embedded in Elastic Foundation Based on a Nonlocal Elasticity Model", *Sensor Letters*, 14(10), 1019-1025.

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Selected Publications:

- Ebrahimi F, Salari E, Hosseini SAH (2015) In-plane thermal loading effects on vibrational characteristics of functionally graded nanobeams. *Meccanica*. doi: 10.1007/s11012-015-0248-3
- Ebrahimi, F., Salari, E. and Hosseini, S.A.H. (2015), "Thermomechanical vibration behavior of FG nanobeams subjected to linear and nonlinear temperature distributions", *J. Therm. Stress.*, 38(12), 1362-1388
- Rahmani, O., Hosseini, S., Noroozi Moghaddam, M. and Fakhari Golpayegani, I. (2015), "Torsional vibration of cracked nanobeam based on nonlocal stress theory with various boundary conditions: An analytical study", *Int. J. Appl. Mech.*, 7(3), 1550036
- S. A. H. Hosseini and O. Rahmani, Free vibration of shallow and deep curved FG nanobeam via nonlocal Timoshenko curved beam model, *Appl. Phys. A*, vol. 122, no. 3, pp. 1–11, 2016.
- Hosseini, S. and Rahmani, O. (2016a), "Exact solution for axial and transverse dynamic response of functionally graded nanobeam under moving constant load based on nonlocal elasticity theory", *Meccanica*, 1-17.
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- Hosseini, S.A.H., Rahmani, O., Nikmehr, M. and Golpayegani, I.F. (2016), "Axial Vibration of Cracked Nanorods Embedded in Elastic Foundation Based on a Nonlocal Elasticity Model", *Sensor Letters*, 14(10), 1019-1025.

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- Refaeinejad, V., Rahmani, O. and Hosseini, S.A.H. (2016a), "An analytical solution for bending, buckling, and free vibration of FG nanobeam lying on Winkler-Pasternak elastic foundation using different nonlocal higher order shear deformation beam theories", *Int. J. Sci. Iranica*.
- Hayati, H., Hosseini, S.A. and Rahmani, O. (2016), "Coupled twist-bending static and dynamic behavior of a curved single-walled carbon nanotube based on nonlocal theory", *Microsyst. Technol.*, 23(7), 2393-2401.
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- O. Rahmani, S.S. Asemani and S.A. Hosseini, "Study the surface effect on the buckling of nanowires embedded in Winkler-Pasternak elastic medium based on a nonlocal theory", *J. Nanostruct.*, Vol. 6, No. 1, pp 87-92, Winter 2016
- O. Rahmani, V. Refaeinejad and S.A.H. Hosseini, "Assessment of various nonlocal higher order theories for the bending and buckling behavior of functionally graded nanobeams", *Steel and Composite Structures*, Vol. 23, No. 3, pp 339-350, 2017
- V. Refaeinejad, O. Rahmani and S.A.H. Hosseini, "Evaluation of nonlocal higher order shear deformation models for the vibrational analysis of functionally graded nanostructures", *Mechanics of Advanced Materials and Structures*, Vol. 24, No. 13, pp 1116-1123, 2017
- O. Rahmani, S.A.H. Hosseini, I. Ghoytasi and H. Golmohammadi, "Free vibration of deep curved FG nanobeam based on modified couple stress theory", *Steel and Composite Structures*, Vol. 26, No. 5, pp 607-620, 2018
- Omid Rahmani, Soroush Deyhim and S. Amir Hossein Hosseini, "Size dependent bending analysis of micro/nano sandwich structures based on a nonlocal high order theory", *Steel and Composite Structures*, Vol. 27, No. 3, pp 371-388, 2018