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Buckling and Vibration Analysis of Buried Shell Structures



Dr. Saggam Narendar

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See:

<https://sites.google.com/site/snr8897625977/>

<https://scholar.google.com/citations?user=-NCwYSUAAAAJ&hl=ja>

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Research Interests:

Nonlocal continuum mechanics; Dynamics of nanostructures: Wave propagation; Spectral finite element method; Thermo-elastic analysis

Selected Publications:

Book:

Saggam Narendar & Teege Srinivas, Buckling and Vibration Analysis of Buried Shell Structures, Lambert, 2014, ISBN-13: 978-3659584619, 400 pages

Journal Articles:

Narendar S, Gopalakrishnan S (2009) Nonlocal scale effects on wave propagation in multi-walled carbon nanotubes. Comput Mater Sci 47(2):526–538

Narendar S., Gopalakrishnan S.: Terahertz wave characteristics of a single-walled carbon nanotube containing a fluid flow using the nonlocal Timoshenko beam model. *Phys. E* 42, 1706 (2010)

Narendar S., Gopalakrishnan S.: Nonlocal scale effects on ultrasonic wave characteristics of nanorods. *Phys. E* 42, 1601 (2010)

Narendar S., Gopalakrishnan S.: Theoretical estimation of length dependent in-plane stiffness of single walled carbon nanotubes using the nonlocal elasticity theory. *J. Comput. Theor. Nanosci.* 7(11), 2349 (2010)

Narendar S., Gopalakrishnan S.: Investigation of the effect of nonlocal scale on ultrasonic wave dispersion characteristics of a monolayer graphene. *Comput. Mater. Sci.* 49, 734 (2010)

Narendar S., Gopalakrishnan S.: Ultrasonic wave characteristics of nanorods via nonlocal strain gradient models. *J. Appl. Phys.* 107, 084312 (2010)

Narendar S., Gopalakrishnan S.: Strong nonlocalization induced by small scale parameter on terahertz flexural wave dispersion characteristics of a monolayer graphene. *Phys. E* 43, 423–430 (2010)

Narendar S., Gopalakrishnan S.: Nonlocal wave propagation in rotating nanotube. *Results Phys* 2011;1:17–25

Narendar S., Roy Mahapatra D, Gopalakrishnan S.: Prediction of nonlocal scaling parameter for armchair and zigzag single-walled carbon nanotubes based on molecular structural mechanics, nonlocal elasticity and wave propagation. *International Journal of Engineering Science*, 2011, 49(6): 509–522

Narendar S.: Buckling analysis of micro-/nano-scale plates based on two-variable refined plate theory incorporating nonlocal scale effects. *Comput. Struct.* 93, 3093–3103 (2011)

S. Narendar and S. Gopalakrishnan, “Scale effects on buckling analysis of orthotropic nanoplates based on nonlocal two-variable refined plate theory”, *Acta Mechanica*, Vol. 223, No. 2, pp 395-413, February 2012

Narendar, S.; Gopalakrishnan, S. Nonlocal flexural wave propagation in a embedded graphene. *Int. J. Comput* 2012, 6, 29–36.

Satish N, Narendar S, Gopalakrishnan S (2012) Thermal vibration analysis of orthotropic nanoplates based on nonlocal continuum mechanics. *Phys E Low Dimens Syst Nanostruct* 44:1950–1962