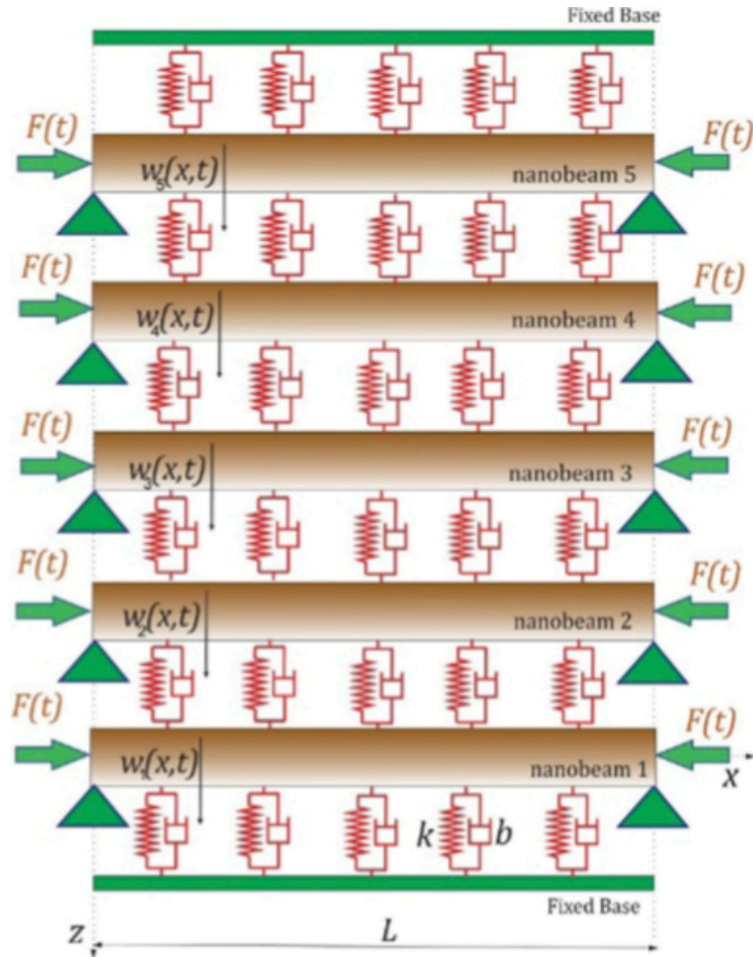




Prof. Milan Cajić



From: Danilo Karličić, Milan Cajić and Sondipon Adhikari, “Dynamic stability of a nonlinear multiple-nanobeam system”, *Nonlinear Dynamics* (date not given; most recent reference is dated 2017), <https://doi.org/10.1007/s11071-018-4273-3>

See:

<http://www.mi.sanu.ac.rs/~mcajic/>

<https://scholar.google.com/citations?user=qnPylkAAAAJ&hl=en>

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Summary:

My research is focused on application of fractional calculus in structural mechanics and multibody system dynamics. Part of the research included application of nonlocal theory in modeling and dynamic analysis of nanostructure systems and nanocomposites. Currently, I am working in the field of wave propagation analysis in periodic structures and metamaterials with dissipation.

Selected Publications:

Julijana Simonovic, Danilo Karlicic and Milan Cajić, “Energy analysis of free transverse vibrations of the visco-elastically connected double-membrane system”, *Facta Universitatis, Series: Mechanical Engineering*, Vol. 12, No. 3, pp 325-337, 2014

Danilo Karlicic, Sondipon Adhikan, Tony Murmu and Milan Cajić, “Exact closed-form solution for non-local vibration and biaxial buckling of bonded multi-nanoplate system”, *Composites Part B: Engineering*, Vol. 66, pp

328-339, November 2014

Danilo Karlicic, Tony Murmu, Milan Cajic, Predrag Kozi and Sondipon Adhikari, "Dynamics of multiple viscoelastic carbon nanotube based nanocomposites with axial magnetic field" *AIP Journal of Applied Physics*, Vol. 115, Article ID 234303, 2014

Danilo Karlicic, Dragan Jovanovic, Predrag Kozic and Milan Cajic, "Thermal and magnetic effects on the vibration of a cracked nanobeam embedded in an elastic medium", *Journal of Mechanics of Materials and Structures*, Vol. 10, No. 1, pp 43-62, 2015

Cajic, M., Karlicic, D., Lazarevic, M.: Nonlocal vibration of a fractional order viscoelastic nanobeam with attached nanoparticle. *Theor. Appl. Mech.* 42, 167–190 (2015)

Karlicic, D., Cajic, M., Murmu, T. and Adhikari, S. [2015] "Nonlocal longitudinal vibration of viscoelastic coupled double-nanorod systems," *European Journal of Mechanics – A/Solids* 49, 183–196

Danilo Karlicic, Milan Cajic, Tony Murmu, Predrag Kozic and Sondipon Adhikari, "Nonlocal effects on the longitudinal vibration of a complex multi-nanorod system subjected to the transverse magnetic field", *Meccanica*, Vol. 50, pp 1605-1621, 2015

Danilo Karlicic, Sanja Ozvat, Milan Cajic, Predrag Kozic and Ratko Pavlovic, "Bending vibration and stability of a multiple-nanobeam system influenced by temperature change", *Facta Universitatis, Series: Mechanical Engineering*, Vol. 14, No 1, pp 75-88, 2016

Milan Cajic, Danilo Karlicic and Mihailo Lazarevic, "Damped vibration of a nonlocal nanobeam resting on viscoelastic foundation: Fractional derivative model with two retardation times and fractional parameters", *Meccanica*, March 2016

Danilo Karličić, Milan Cajić and Sondipon Adhikari, "Dynamic stability of a nonlinear multiple-nanobeam system", *Nonlinear Dynamics* (date not given; most recent reference is dated 2017), <https://doi.org/10.1007/s11071-018-4273-3>

D. Karličić, M. Cajić, S. Adhikari, P. Kozić and T. Murmu, Vibrating nonlocal multi-nanoplate system under inplane magnetic field, *Eur. J. Mech.-A/Solids* 64 (2017) 29–45.

Danilo Karlicic, Predrag Kozic and Milan Cajic, "Stochastic stability of a magnetically affected single-layer graphene sheet resting on a viscoelastic foundation", *European Journal of Mechanics – A/Solids*, Vol. 72, pp 66-78, November-December 2018

Milan Cajic, Mihailo Lazarevic, Danilo Karlicic and HongGuang Sun, "Fractional-order model for the vibration of a nanobeam influenced by an axial magnetic field and attached nanoparticles", *Acta Mechanica*, Vol. 229, No. 12, pp 4791-4815, December 2018