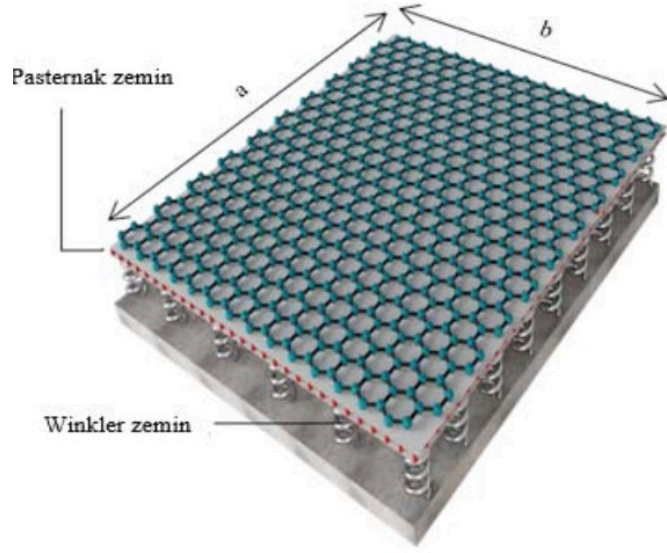




Professor Bekir Akgöz



From: Çiğdem Demir, Bekir Akgöz, Mehmet Cihad Erdinç, Kadir Mercan and Ömer Civalek, “Free vibration analysis of graphene sheets on elastic matrix”, Journal of the Faculty of Engineering and Architecture of Gazi University, Vol. 32, No. 2, pp 551-562, 2017 (See below for the translated abstract of this paper.)

See:

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

https://www.researchgate.net/profile/Bekir_Akgoez

<http://www.sapub.org/journal/editorialdetails.aspx?JournalID=1014&PersonID=19135>

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Education:

2010-2014 PhD The Graduate School of Natural and Applied Sciences, Akdeniz University

2009-2010 M.Sc The Graduate School of Natural and Applied Sciences, Akdeniz University

2005-2009 B.Sc Dept. of Civil Engineering, Akdeniz University

Research Interests:

Solid mechanics, Higher-order (nonclassical) theories, Modeling of micro- and nano-sized structures, Vibration of continuous systems, Beam and plate theories

Selected Publications:

Civalek Ö, Demir Ç, Akgöz B. Static analysis of single walled carbon nanotubes (SWCNT) based on Eringen’s elasticity theory. Int J Eng Appl Sci 2009;2:47–56

A.K. Baltacıoğlu, B. Akgöz, Ö. Civalek, “Nonlinear static response of laminated composite plates by discrete singular convolution method”, Compos Struct, 93 (2010), pp. 153-161

Ö. Civalek, C. Demir, and B. Akgöz, “Free vibration and bending analyses of Cantilever microtubules based on nonlocal continuum model,” Mathematical & Computational Applications, vol. 15, no. 2, pp. 289–298, 2010.

A.K. Baltacıoğlu, Ö. Civalek, B. Akgöz, F. Demir, Large deflection analysis of laminated composite plates resting on nonlinear elastic foundations by the method of discrete singular convolution, *Int. J. Pres. Ves. Pip.*, 88 (2011), 290-300

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Akgöz B., Civalek Ö.: Modeling and analysis of micro-sized plates resting on elastic medium using the modified couple stress theory. *Meccanica* 48, 863–873 (2013)

Akgöz B.: Buckling analysis of functionally graded micro-beams based on the strain gradient theory. *Acta Mech.* 224, 2185–2201 (2013)

Akgöz B., Civalek O.: A new trigonometric beam model for buckling of strain gradient microbeams. *Int. J. Mech. Sci.* 81, 88–94 (2014)

Akgöz, B., Civalek, Ö.: Thermo-mechanical buckling behavior of functionally graded microbeams embedded in elastic medium. *Int. J. Eng. Sci.* 85, 90–104 (2014)

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Shahriar Dastjerdi, Bekir Akgoez and Leila Yazdanparast, "A new approach for bending analysis of bilayer conical graphene panels considering nonlinear van der Waals force", *Composites Part B: Engineering*, Vol. 150, pp 124-134, 1 October 2018

Çiğdem Demir, Bekir Akgöz, Mehmet Cihad Erdiñ, Kadir Mercan and Ömer Civalek, "Free vibration analysis of graphene sheets on elastic matrix", *Journal of the Faculty of Engineering and Architecture of Gazi University*, Vol. 32, No. 2, pp 551-562, 2017

ABSTRACT: Graphene sheets are generally surrounded by an elastic matrix in applications. In the present study, free vibration analysis of graphene sheets is investigated via higher-order elasticity theory. Graphene sheet is modeled via thin plate on elastic medium. Winkler-Pasternak two-parameter elastic foundation model is used as foundation. The method of modified double stress theory is used for size-dependent vibration. Frequencies have been calculated by discrete singular convolution and analytical method.