



Figure 2. Mesh of the model

Compressed plate with circular delamination

Finite element mesh of the damaged plate

Above 2 images are from: Mohammad Hosseini, Peyman Sabokroohieh and Parvaneh Hosseini, "Buckling behavior of composite plates with circular embedded delaminations under in-plane compressive loading", Technical Journal of Engineering and Applied Sciences, Vol. 3, No. 13, pp 1238-1245, 2013

Professor Mohammad Hosseini (M. Hosseini)

See:

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

Department of Mechanical Engineering, Sirjan University of Technology, Iran

Or:

Shahid Chamran University of Ahvaz

Or:

Dept. of Mechanical Engineering, Islamic Azad University, Yasooj, Iran

Selected publications (It is possible that in the following list "M. Hosseini" refers to different people):

Fazelzadeh SA, Malekzadeh P, Zahedinejad P, Hosseini M (2007) Vibration analysis of functionally graded thin-walled rotating blades under high temperature supersonic flow using the differential quadrature method. J Sound Vib 306:333–348

S.A. Fazelzadeh and M. Hosseini, Aero-thermo-elastic behavior of supersonic rotating thin-walled beams made of functionally graded materials, J. Fluids Struct., vol. 23, no. 8, pp. 1251–1264, 2007.

M. Hosseini, H. Abbas, and N.K. Gupta, Change in thickness in straight fold models for axial crushing of thin-walled frusta and tubes, Thin-Walled Struct. 47 (1) (2009), pp. 98–108.

Hosseini, M. and Fazelzadeh, S.A. (2010), "Aerothermoelastic post-critical and vibration analysis of temperature-dependent functionally graded panels", J. Thermal Stresses, 33(12), 1188-1212.

A. Safari, M. Hosseini, and M. Tahani, Thermal Shock Analysis and Thermo-elastic Stress Waves in Functionally Graded Thick Hollow Cylinders using Analytical Method, *Int. J. Mech. Mater.*, vol. 7, pp. 167–184, 2011

Hosseini, M. and Fazelzadeh, S.A. (2011), "Thermomechanical stability analysis of functionally graded thin-walled cantilever pipe with flowing fluid subjected to axial load", *Int. J. Struct. Stabil. Dyn.*, 11(3), 513-534.

Marzocca, P., Fazelzadeh, S.A. and Hosseini, M. (2011), "A review of nonlinear aero-thermo-elasticity of functionally graded panels", *J. Thermal Stresses*, 34(5-6), 536-568

Fazelzadeh SA, Hosseini M, Madani H (2011) Thermal divergence of supersonic functionally graded plates. *J Therm Stresses* 34(8):759–777

Hosseini M, Fazelzadeh SA, Marzocca P (2011) Chaotic and bifurcation dynamic behavior of functionally graded curved panels under aero-thermal loads. *Int J Bifurc Chaos* 21(3):931–954

Mohammad Hosseini, Peyman Sabokroohieh and Parvaneh Hosseini, "Buckling behavior of composite plates with circular embedded delaminations under in-plane compressive loading", *Technical Journal of Engineering and Applied Sciences*, Vol. 3, No. 13, pp 1238-1245, 2013

Fard, K.M., Khalili, S.M.R., Forooghi, S.H., Hosseini, M.: Low velocity transverse impact response of a composite sandwich plate subjected to a rigid blunted cylindrical impactor. *Compos. B Eng.* 63, 111–122 (2014)

Hosseini, M., Sadeghi-Goughari, M., Atashipour, S.A. and Eftekhari, M., "Vibration analysis of single-walled carbon nanotubes conveying nanoflow in a viscoelastic medium using modified nonlocal beam model", *Archives of Mechanics*, Vol. 66, No. 4, pp 217-244, 2014

Yousefi, A.M., Hosseini, M. and Fanaie, N. (2014), "Vulnerability assessment of progressive collapse of steel moment resistant frames", *Trends Appl. Sci. Res.*, 9(8), 450-460.

A. Jamalpoor and M. Hosseini, "Biaxial buckling analysis of double-orthotropic microplate systems including in-plane magnetic field based on strain gradient theory", *Composites Part B: Engineering*, Vol. 75, pp 53-64, June 2015

Hosseini M., Jamalpoor A.: Analytical solution for thermomechanical vibration of double-viscoelastic nanoplate-systems made of functionally graded materials. *J. Therm. Stress* 38, 1428–1456 (2015)

Jamalpoor a., Hosseini M.: Biaxial buckling analysis of double-orthotropic microplate-systems including in-plane magnetic field based on strain gradient theory. *Compos. B Eng.* 75, 53–64 (2015)

M. Hosseini, R. Bahaadini, Size dependent stability analysis of cantilever micro-pipes conveying fluid based on modified strain gradient theory, *International Journal of Engineering Science*, 101 (2016), pp. 1–13

M. Eftekhan and M. Hosseini, "On the stability of spinning functionally graded cantilevered pipes subjected to fluid-thermomechanical loading", *International Journal of Structural Stability and Dynamics*, Vol. 16, No. 9, 1550062, November 2016

M. Hosseini and M.A. Papisabet, "The effects of blood flow on blood vessel buckling embedded in surrounding soft tissues", *International Journal of Applied Mechanics*, Vol. 8, No. 5, 1650065, July 2016

M. Hosseini, M. Bahreman and A. Jamalpoor, "Using the modified strain gradient theory to investigate the size-dependent biaxial buckling analysis of an orthotropic multi-microplate system", *Acta Mechanica*, Vol. 227, No. 6, pp 1621-1543, June 2016

Hosseini, M. and Sadeghi-Goughari, M. (2016), "Vibration and instability analysis of nanotubes conveying fluid subjected to a longitudinal magnetic field", *App. Math. Model.*, 40(4), 2560-2576

A. Jamalpoor, A. Ahmadi-Savadkooh, M. Hosseini and Sh. Hosseini-Hashemi, "Free vibration and biaxial buckling analysis of double magneto-electro-elastic nanoplate-systems coupled by a visco-Pasternak medium via nonlocal elasticity theory", *European Journal of Mechanics – A/Solids*"

<https://doi.org/10.1016/j.euromechsol.2016.12.002>

Hosseini M, Bahreman M, Jamalpoor A (2016) Using the modified strain gradient theory to investigate the size-dependent biaxial buckling analysis of an orthotropic multi-microplate system. *Acta Mech.*
doi: 10.1007/s00707-016-1570-0

A. Jamalpoor, A. Ahmadi-Savadkoobi, M. Hosseini, Sh Hosseini-Hashemi, “Free vibration and biaxial buckling analysis of double magneto-electro-elastic nanoplate-systems coupled by a visco-Pasternak medium via nonlocal elasticity theory”, *Eur J Mech – A/Solids*, 63 (2017), pp. 84-98

M. Hosseini, A. Jamalpoor and A. Fath, “Surface effect on the biaxial buckling and free vibration of FGM nanoplate embedded in visco-Pasternak standard linear solid-type of foundation”, *Meccanica*, Vol. 52, No. 6, pp 1381-1396, April 2017

Mohammad Hosseini, Hamid Haghshenas Gorgani, Mohammed Shishesaz and Amin Hadi, “Size-dependent stress analysis of single-wall carbon nanotube based on strain gradient theory”, *Int. J. Appl. Mechanics* 09(6), 1750087 (2017) [24 pages] September 2017

Reza Bahaadini, Ali Reza Saidi and Mohammad Hosseini, “On dynamics of nanotubes conveying nanoflow”, *International Journal of Engineering Science*, Vol. 123, pp 18-196, February 2018

Reza Bahaadini, Mohammad Reza Dashtbayazi, Mohammad Hosseini and Zahra Khalili-Parizi, “Stability analysis of composite thin-walled pipes conveying fluid”, *Ocean Engineering*, Vol. 160, pp 311-323, July 2018

Amin Hadi, Mohammad Zamani Nejad, Abbas Rastgoo and Mohammad Hosseini, “Buckling analysis of FGM Euler-Bernoulli nano-beams with 3D-varying properties based on consistent couple-stress theory”, *Steel and Composite Structures*, Vol. 26, No. 6, pp 663-672, 2018