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**Selected Publications:**

- M.S.A. Houari, A.A. Bousahla, A. Bessaim, E.A. Adda Bedia and A. Tounsi, “Buckling of functionally graded nanobeams based on the nonlocal new first-order shear deformation beam theory”, MATEC Web of Conferences, Vo. 11, 01024, 2014
- Bousahla, A. A., Houari, M. S. A., Tounsi, A. and Adda Bedia, E. A. [2014] “ A novel higher order shear and normal deformation theory based on neutral surface position for bending analysis of advanced composite plates,” International Journal of Computational Methods 11(6), 1350082.
- Said, A., Ameer, M, Bousahla, A. A. and Tounsi, A. [2014] “ A new simple hyperbolic shear deformation theory for functionally graded plates resting on Winkler–Pasternak elastic foundations,” International Journal of Applied Mechanics 11(6), 1350098.
- Awda Chemi, Houari Heireche, Mohamed Zidour, Kaddour Rakrak and Abdelmoumen Anis Bousahla, “Critical buckling load of chiral double-walled carbon nanotube using non-local theory elasticity”, Advances in Nano Research, Vol. 3, No. 4, pp 193-206, 2015
- Besseghier, A., Heireche, H., Bousahla, A.A., Tounsi, A., Benzair, A.: Nonlinear vibration properties of a zigzag single-walled carbon nanotube embedded in a polymer matrix. Adv. Nano Res. 3(1), 029 (2015)
- Zemri, A., Houari, M. S. A., Bousahla, A. A. and Tounsi, A. [2015] “ A mechanical response of functionally graded nanoscale beam: An assessment of a refined nonlocal shear deformation theory beam theory,” Structural Engineering and Mechanics 54(4), 693–710.

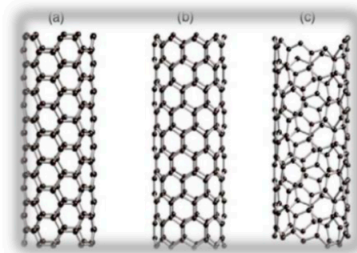


Fig. 1 single-walled carbon nanotube, (a) armchair, (b) zigzag, (c) chiral

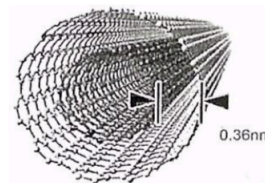


Fig. 2 double-walled carbon nanotube

From: Rakrak, K., Zidour, M., Heireche, H., Bousahla, A.A. and Chemi, A. (2016), "Free vibration analysis of chiral double-walled carbon nanotube using non-local elasticity theory", Adv. Nano Res., 4(1), 31-44.

Rakrak, K., Zidour, M., Heireche, H., Bousahla, A.A. and Chemi, A. (2016), "Free vibration analysis of chiral double-walled carbon nanotube using non-local elasticity theory", *Adv. Nano Res.*, 4(1), 31-44.

Saidi, H., Tounsi, A. and Bousahla, A.A. (2016), "A simple hyperbolic shear deformation theory for vibration analysis of thick functionally graded rectangular plates resting on elastic foundations", *Geomech. Eng.*, 11(2), 289-307

Bousahla, A.A., Benyoucef, S., Tounsi, A. and Mahmoud, S.R. (2016), "On thermal stability of plates with functionally graded coefficient of thermal expansion", *Struct. Eng. Mech.*, 60(2), 313-335

Laoufi, I., Ameer, M., Zidi, M., Adda Bedia, E.A. and Bousahla, A.A. (2016), "Mechanical and hygrothermal behaviour of functionally graded plates using a hyperbolic shear deformation theory", *Steel Compos. Struct.*, 20(4), 889-911.

Menasria, A., Bouhadra, A., Tounsi, A., Bousahla, A.A. and Mahmoud, S. (2017), "A new and simple HSDT for thermal stability analysis of FG sandwich plates", *Steel Compos. Struct.*, 25(2), 157-175.

Bellifa, H., Bakora, A., Tounsi, A., Bousahla, A.A. and Mahmoud, S.R. (2017), "An efficient and simple four variable refined plate theory for buckling analysis of functionally graded plates", *Steel Compos. Struct.*, 25(3), 257-270.

El-Haina, F., Bakora, A., Bousahla, A.A., Tounsi, A. and Mahmoud, S.R. (2017), "A simple analytical approach for thermal buckling of thick functionally graded sandwich plates", *Struct. Eng. Mech.*, 63(5), 585-595.

Abdelaziz, H.H., Meziane, M.A.A., Bousahla, A.A., Tounsi, A., Mahmoud, S.R. and Alwabli, A.S. (2017), "An efficient hyperbolic shear deformation theory for bending, buckling and free vibration of FGM sandwich plates with various boundary conditions", *Steel Compos. Struct.*, 25(6), 693-704

Bellifa, H., Benrahou, K.H., Bousahla, A.A., Tounsi, A. and Mahmoud, S.R. (2017), "A nonlocal zeroth-order shear deformation theory for nonlinear postbuckling of nanobeams", *Struct. Eng. Mech.*, 62(6), 695-702.

Yazid, M., Heireche, H., Tounsi, A., Bousahla, A. A. and Houari, M. S. A. [2018] "A novel nonlocal refined plate theory for stability response of orthotropic single-layer graphene sheet resting on elastic medium," *Smart Structures and Systems* 21(1), 15–25

Kadari, B., Bessaim, A., Tounsi, A., Heireche, H., Bousahla, A.A. and Houari, M.S.A. (2018), "Buckling analysis of orthotropic nanoscale plates resting on elastic foundations", *J. Nano Res.*, 55, 42-56.

Bouhadra, A., Tounsi, A., Bousahla, A.A., Benyoucef, S. and Mahmoud, S.R. (2018), "Improved HSDT accounting for effect of thickness stretching in advanced composite plates", *Struct. Eng. Mech.*, 66(1), 61-73

Youcef, D.O., Kaci, A., Benzair, A., Bousahla, A.A. and Tounsi, A. (2018), "Dynamic analysis of nanoscale beams including surface stress effects", *Smart Struct. Syst.*, 21(1), 65-74.

Belabed, Z., Bousahla, A.A., Houari, M.S.A., Tounsi, A. and Mahmoud, S.R. (2018), "A new 3-unknown hyperbolic shear deformation theory for vibration of functionally graded sandwich plate", *Earthq. Struct.*, 14(2), 103-115.

Fourn, H., Atmane, H.A., Bourada, M., Bousahla, A.A., Tounsi, A. and Mahmoud, S.R. (2018), "A novel four variable refined plate theory for wave propagation in functionally graded material plates", *Steel Compos. Struct.*, 27(1), 109-122.

Bouadi, A., Bousahla, A.A., Houari, M.S.A., Heireche, H. and Tounsi, A. (2018), "A new nonlocal HSDT for analysis of stability of single layer graphene sheet", *Adv. Nano Res.*, 6(2), 147-162

Bakhadda, B., Bachir Bouiadjra, M., Bourada, F., Bousahla, A.A., Tounsi, A. and Mahmoud, S.R. (2018), "Dynamic and bending analysis of carbon nanotube-reinforced composite plates with elastic foundation", *Wind Struct.*, 27(5), 311-324

Mokhtar, Y., Heireche, H., Bousahla, A.A., Houari, M.S.A., Tounsi, A. and Mahmoud, S.R. (2018), "A novel shear deformation theory for buckling analysis of single layer graphene sheet based on nonlocal elasticity theory", *Smart Struct. Syst.*, 21(4), 397-405.

Ali Mazari, Amina Attia, Mohamed Sekkal, Abdelhakim Kaci, Abdelouahed Tounsi, Abdelmoumen Anis Bousahla and S.R. Mahmoud, "Bending analysis of functionally graded thick plates with in-plane stiffness variation", *Structural Engineering and Mechanics* Volume 68, Number 4, November 25 2018, pages 409-421

Attia, A., Bousahla, A.A., Tounsi, A., Mahmoud, S.R. and Alwabli, A.S. (2018), "A refined four variable plate theory for thermoelastic analysis of FGM plates resting on variable elastic foundations", *Struct. Eng. Mech.*, 65(4), 453-464

Younsi, A., Tounsi, A., Zaoui, F.Z., Bousahla, A.A. and Mahmoud, S. (2018), "Novel quasi-3D and 2D shear deformation theories for bending and free vibration analysis of FGM plates", *Geomech. Eng.*, 14(6), 519-532

Bourada, F., Amara, K., Bousahla, A.A., Tounsi, A. and Mahmoud, S.R. (2018), "A novel refined plate theory for stability analysis of hybrid and symmetric S-FGM plates", *Struct. Eng. Mech.*, 68(6), 661-675

Kaci, A., Houari, M.S.A., Bousahla, A.A., Tounsi, A. and Mahmoud, S.R. (2018), "Post-buckling analysis of shear-deformable composite beams using a novel simple two-unknown beam theory", *Struct. Eng. Mech.*, 65(5), 621-631

Kadari, B., Bessaim, A., Tounsi, A., Heireche, H., Bousahla, A.A. and Houari, M.S.A. (2018), "Buckling analysis of orthotropic nanoscale plates resting on elastic foundations", *J. Nano Res.*, Accepted

Khiloun, M., Bousahla, A.A., Kaci, A., Bessaim, A., Tounsi, A. and Mahmoud, S.R. (2019), "Analytical modeling of bending and vibration of thick advanced composite plates using a four-variable quasi 3D HSDT", *Eng. Comput.*, 1-15.

Bourada, F., Bousahla, A.A., Bourada, M., Azzaz, A., Zinata, A. and Tounsi, A. (2019), "Dynamic investigation of porous functionally graded beam using a sinusoidal shear deformation theory", *Wind Struct.*, 28(1), 19-30.

Semmah, A., Heireche, H., Bousahla, A.A. and Tounsi, A. (2019), "Thermal buckling analysis of SWBNNT on Winkler foundation by non local FSDT", *Adv. Nano Res.*, 7(2), 89-98

Mohamed Bourada, Abed Bouadi, Abdelmoumen Anis Bousahla, Amel Senouci, Fouad Bourada, Abdelouahed Tounsi and S.R. Mahmoud, "Buckling behavior of rectangular plates under uniaxial and biaxial compression", *Structural Engineering and Mechanics*, Vol. 70, No. 1, April 10, 2019, pp 113-123

Boulefrakh, L., Hebali, H., Chikh, A., Bousahla, A.A., Tounsi, A. and Mahmoud, S.R. (2019), "The effect of parameters of visco-Pasternak foundation on the bending and vibration properties of a thick FG plate", *Geomech. Eng.*, 18(2), 161-178.

Chaabane, L.A., Bourada, F., Sekkal, M., Zerouati, S., Zaoui, F.Z., Tounsi, A., Derras, A., Bousahla, A.A. and Tounsi, A. (2019), "Analytical study of bending and free vibration responses of functionally graded beams resting on elastic foundation", *Struct. Eng. Mech.*, 71(2), 185-196

Boutaleb, S., Benrahou, K.H., Bakora, A., Algarni, A., Bousahla, A.A., Tounsi, A., Mahmoud, S.R. and Tounsi, A. (2019), "Dynamic Analysis of nanosize FG rectangular plates based on simple nonlocal quasi 3D HSDT", *Adv. Nano Res.*, 7(3), 189-206.

Addou, F.Y., Meradjah, M., A.A, Bousahla, Benachour, A., Bourada, F., Tounsi, A. and Mahmoud, S.R. (2019), "Influences of porosity on dynamic response of FG plates resting on Winkler/Pasternak/Kerr foundation using quasi 3D HSDT", *Comput. Concrete*, 24(4), 347-367

Draiche, K., Bousahla, A.A., Tounsi, A., Alwabli, A.S., Tounsi, A. and Mahmoud, S.R. (2019), "Static analysis of laminated reinforced composite plates using a simple first-order shear deformation theory", *Comput. Concrete*, 24(4), 369-378.

Zarga, D., Tounsi, A., Bousahla, A.A., Bourada, F. and Mahmoud, S.R. (2019), "Thermomechanical bending study for functionally graded sandwich plates using a simple quasi-3D shear deformation theory", *Steel Compos. Struct.*, 32(3), 389-410.

Boukhelif, Z., Bouremana, M., Bourada, F., Bousahla, A.A., Bourada, M., Tounsi, A. and Al-Osta, M.A. (2019), "A simple quasi-3D HSDT for the dynamics analysis of FG thick plate on elastic foundation", *Steel Compos. Struct.*, 31(5), 503-516.

Medani, M., Benahmed, A., Zidour, M., Heireche, H., Tounsi, A., Bousahla, A.A., Tounsi, A. and Mahmoud, S.R. (2019), "Static and dynamic behavior of (FG-CNT) reinforced porous sandwich plate", *Steel Compos. Struct.*, 32(5), 595-610.

Tlidji, Y., Zidour, M., Draiche, K., Safa, A., Bourada, M., Tounsi, A., Bousahla, A.A. and Mahmoud, S.R. (2019), "Vibration analysis of different material distributions of functionally graded microbeam", *Struct. Eng. Mech.*, 69(6), 637-649.

Hellal, H., Bourada, M., Hebali, H., Bourada, F., Tounsi, A., Bousahla, A.A. and Mahmoud, S.R. (2019), "Dynamic and stability analysis of functionally graded material sandwich plates in hygro-thermal environment using a simple higher shear deformation theory", *J. Sandw. Struct. Mater.*, <https://doi.org/10.1177/1099636219845841>

Benmansour, D.L., Kaci, A., Bousahla, A.A., Heireche, H., Tounsi, A., Alwabli, A.S., Alhebshi, A.M., Alghmady, K. and Mahmoud, S.R. (2019), "The nano scale bending and dynamic properties of isolated protein microtubules based on modified strain gradient theory", *Adv. Nano Res.* (accepted)

Boussoula, A., Boucham, B., Bourada, M., Bourada, F., Tounsi, A., Bousahla, A.A. and Tounsi, A. (2019), "A simple nth-order shear deformation theory for thermomechanical bending analysis of different configurations of

FG sandwich plates”, Smart Struct. Syst. (accepted)