



Professor Abdelbaki Chikh

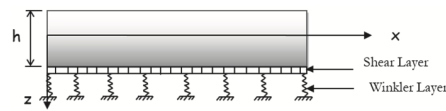


Figure 1: FGM beam supported by Winkler–Pasternak type elastic foundation.

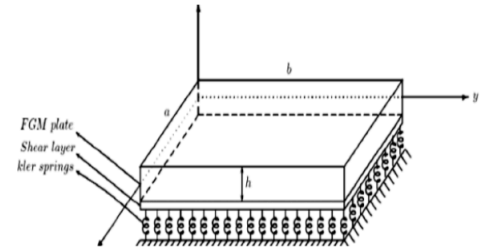


Fig. 1: P-FGM plate on an elastic foundation.

Middle image is from: From: Abdelbaki Chikh, “Investigations in static response and free vibration of a functionally graded beam resting on elastic foundations”, *Frattura ed Integrità Strutturale*, 51 (2020) 115-126.

Right-most image is from: Abdelbaki Chikh, A. Tounsi and E.A. Adda Bedia, “Thermal stability of FGM rectangular plates using a new hyperbolic shear deformation theory”, *Journal of Materials, Processes and Environment*, Vol. 5, No. 1, May 2017

See:

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

<https://scholar.google.com/citations?user=jYu-pv0AAAAAJ&hl=en>

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Selected Publications:

Chikh, A., Bakora, A., Heireche, H., Houari, M.S.A., Tounsi, A. and Bedia, E.A. (2016), "Thermo-mechanical postbuckling of symmetric S-FGM plates resting on Pasternak elastic foundations using hyperbolic shear deformation theory", *Struct. Eng. Mech.*, 57(4), 617-639.

Fahsi, A., Tounsi, A., Hebali, H., Chikh, A., Adda Bedia, E.A. and Mahmoud, S.R. (2017), "A four variable refined nth-order shear deformation theory for mechanical and thermal buckling analysis of functionally graded plates", *Geomech. Eng.*, 13(3), 385-410.

Chikh, Abdelbaki; Tounsi, A; Hebali, H and E.A. Bedia, “Des investigations sur le comportement mécanique des plaques en matériaux fonctionnellement gradués (FGM)”, *First Journées Nationales sur les Structures et les Matériaux Nano-Composites (JNSMNC2017)*, 2017

A. Chikh, A. Tounsi, H. Hebali, S. Mahmoud Thermal buckling analysis of cross-ply laminated plates using a simplified HSDT, *Smart Struct. Syst.*, 19 (2017), pp. 289-297

Fahsi, A., Tounsi, A., Hebali, H., Chikh, A., Adda Bedia, E.A. and Mahmoud, S.R. (2017), “A four variable refined nth-order shear deformation theory for mechanical and thermal buckling analysis of functionally graded plates”, *Geomech. Eng.*, 13(3), 385-410.

Abdelbaki Chikh, A. Tounsi and E.A. Adda Bedia, “Thermal stability of FGM rectangular plates using a new hyperbolic shear deformation theory”, *Journal of Materials, Processes and Environment*, Vol. 5, No. 1, May 2017

Chikh Abdelbaki, H. Habib, B. Abdelghani, T. Abdelouahed and B. Laid, “Une théorie efficace pour prédire la flexion des plaques FGM sous diverses charges”, *Séminaire International de Génie Civil sur les Matériaux Cimentaires (SIGC2018, Oran, 27-28 November 2018)*

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

Malika Bouhlali, Abdelbaki Chikh, Mohammed Bouremana, Abdelhakim Kaci, Fouad Bourada, Khalil Belakhdar and Abdelouahed Tounsi, "Nonlinear thermoelastic analysis of FGM thick plates", *Coupled Systems Mechanics*, Vol. 8, No. 5, pp 439-457, 2019

Abualnour, M., Chikh, A., Hebali, H., Kaci, A., Tounsi, A., Bousahla, A.A. and Tounsi, A. (2019), "Thermomechanical analysis of antisymmetric laminated reinforced composite plates using a new four variable trigonometric refined plate theory", *Comput. Concrete*, 24(6), 489-498

Abdelbaki Chikh, "Analysis of static behavior of a P-FGM beam", *Journal of Materials and Engineering Structures*, Vol. 6, pp 513-524, 2019

Tounsi, A., Al-Dulaijan, S.U., Al-Osta, M.A., Chikh, A., Al-Zahrani, M.M., Sharif, A. and Tounsi, A. (2020), "A four variable trigonometric integral plate theory for hygro-thermo-mechanical bending analysis of AFG ceramic-metal plates resting on a two-parameter elastic foundation", *Steel Compos. Struct.*, 34(4), 511-524.

Abdelbaki Chikh, "Investigations in static response and free vibration of a functionally graded beam resting on elastic foundations", *Frattura ed Integrità Strutturale*, 51 (2020) 115-126.