



# Abdelhakim BOUHADRA

University teacher

## PROFILE

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## LANGUAGES

Arabe 

Français 

Anglais 

## ♥ ACADIMIC TRAINING

2003 - 2008

Setif, Algeria

### **Civil Engineer**

*Ferhat Abbas University of Setif*

2010 - 2012

Sidi Bel Abbas, Algeria

### **Master in Civil Engineering**

*Djillali Liabes University of Sidi Bel Abbas*

2012 - 2015

Sidi Bel Abbas, Algeria

### **Sciences Doctorate in Civil Engineering**

*Djillali Liabes University of Sidi Bel Abbas*

2019

Sidi Bel Abbas, Algeria

### **University Accreditation in Civil Engineering**

*Djillali Liabes University of Sidi Bel Abbas*

## ♥ JOB HELD

10/01/2009 -- 30/07/2009

### **B E T E W Bejaïa**

Engineer responsible for control and monitoring

- *Penitentiary Project 300 inmates at AIN AZEL (Setif)*
- *Base 5 School Project in Ain Abbassa (Setif)*

01/08/2009 -- 29/03/2015

### **Technical service of the district of Setif**

Urban planning and construction engineer

- *Control and monitoring of projects*
- *Launch of submissions and calls for tenders*
- *Project proposals within the framework of the municipal development plan (PCD)*

Since 30/03/2015

### **Abbes Laghrour University of Khenchela**

Teacher Researcher

- *Teacher at the Civil Engineering department*
- *Supervision of Master's and Bachelor's students*
- *Participation in educational activities*

- ➔ Abdelhakim Bouhadra, Samir Benyoucef, Abdelouahed Tounsi, Fabrice Bernard, Rabbab Bachir Bouiadjra & Mohammed Sid Ahmed Houari “Thermal Buckling Response of Functionally Graded Plates with Clamped Boundary Conditions” *Journal of Thermal Stresses*, 38: 630–650, 2015.
- ➔ Abderrahmane Menasria, Abdelhakim Bouhadra, Abdelouahed Tounsi, Abdelmoumen Anis Bousahla and S.R. Mahmoud. (2017). “A new and simple HSDT for thermal stability analysis of FG sandwich plates”, *Steel and Composite Structures*, Vol. 25, No. 2 (2017) 157-175.
- ➔ Abdelhakim Bouhadra, Abdelouahed Tounsi, Abdelmoumen Anis Bousahla, Samir Benyoucef and S.R. Mahmoud. (2018) “Improved HSDT accounting for effect of thickness stretching in advanced composite plates” *Structural Engineering and Mechanics*, Vol. 66, No. 1 (2018) 61-73.
- ➔ Bouzid Merazka, Abdelhakim Bouhadra, Abderrahmane Menasria, Mahmoud M. Selim, Abdelmoumen Anis Bousahla, Fouad Bourada, Abdeldjebbar Tounsi, Kouider Halim Benrahou, Abdelouahed Tounsi, & Mesfer Mohammad Al-Zahrani (2021). Hygro-thermo-mechanical bending response of FG plates resting on elastic foundations. *Steel and Composite Structures, An International Journal*, 39(5), 631-643. <https://doi.org/10.12989/scs.2021.39.5.631>.
- ➔ Refrafi Salah, Abdelmoumen Anis Bousahla, Abdelhakim Bouhadra, Menasria Abderrahmane. Fouad Bourada, Abdeldjebbar Tounsi, Adda Bedia, E.A., Mahmoud, S.R., Benrahou Kouider Halim, and Abdelouahed Tounsi. “Effects of hygro-thermo-mechanical conditions on the buckling of FG sandwich plates resting on elastic foundations”. *Computers and Concrete*, Vol. 25, No. 4 (2020) 311-325. <https://doi.org/10.12989/cac.2020.25.4.311>.
- ➔ Ali Rachedi Mohamed, Benyoucef Samir, Abdelhakim Bouhadra, Sekkal Mohamed, Rabbab Bachir Bouiadjra, Benachour, A. “Impact of the homogenization models on the thermoelastic response of FG plates on variable elastic foundation”. *Geomech. Eng.* 22(1), 065–080 (2020). <https://doi.org/10.12989/gae.2020.22.1.065>.
- ➔ Bouhadra, A., Menasria, A. and Rachedi, MA (2021) “Boundary conditions effect for buckling analysis of porous functionally graded nanobeam,” *Advances in nano research*. Technopress, Volume 10 (No. 4), pp. 313–325. <https://doi.org/10.12989/ANR.2021.10.4.313>.
- ➔ Rebai, B., Bouhadra, A., Bousahla, A.A. et al. Thermoelastic response of functionally graded sandwich plates using a simple integral HSDT. *Arch Appl Mech* 91, 3403–3420 (2021). <https://doi.org/10.1007/s00419-021-01973-7>.
- ➔ Nabil Himeur, Belgacem Mamen, Soumia Benguediab, Abdelhakim Bouhadra, Abderrahmane Menasria, Benattou Bouchouicha, Fouad Bourada, Mohamed Benguediab, Abdelouahed Tounsi. Coupled effect of variable Winkler–Pasternak foundations on bending behavior of FG plates exposed to several types of loading. Vol. *Steel and Composite Structures, An International Journal*, 44, No. 3 (2022) 339-355. <https://doi.org/10.12989/scs.2022.44.3.353>.
- ➔ Abdelhak Berkia, Soumia Benguediab, Abderrahmane Menasria, Abdelhakim Bouhadra, Fouad Bourada. Belgacem Mamen, Abdelouahed Tounsi, Kouider Halim Benrahou, Mohamed Benguediab and Muzamal Hussain. Static buckling analysis of bi-directional functionally graded

- sandwich (BFGSW) beams with two different boundary conditions. Vol. 44, No. 4 (2022) 503-517. <https://doi.org/10.12989/scs.2022.44.4.503>.
- ➔ Chitour, M., Bouhadra, A., Benguediab, S., Saoudi, A., Menasria, A. R., & Tounsi, A. (2022). Effect of Phase Contrast and Geometrical Parameters on Bending Behavior of Sandwich Beams with FG Isotropic Face Sheets. *Journal of Nano-and Electronic Physics*, 14(5). [https://doi.org/10.21272/jnep.14\(5\).05016](https://doi.org/10.21272/jnep.14(5).05016).
- ➔ Berkia, A., Benguediab, M., Bouhadra, A., Mansouri, K., Tounsi, A., & Chitour, M. (2022). Influence of Mechanical and Geometric Characteristics on Thermal Buckling of Functionally Graded Sandwich Plates. Vol. 14, No. 3. 03031(6pp). [https://doi.org/10.21272/jnep.14\(3\).03031](https://doi.org/10.21272/jnep.14(3).03031).
- ➔ Faicel Khadraoui<sup>1</sup>, Abderahmane Menasria, Belgacem Mamen, Abdelhakim Bouhadra, Fouad Bourada, Soumia Benguediab, Kouider Halim Benrahou, Mohamed Benguediab and Abdelouahed Tounsi(2022). Thickness stretching and nonlinear hygro-thermo-mechanical loading effects on bending behavior of FG beams. Vol. 84, No. 8. 387-798. <https://doi.org/10.12989/sem.2022.84.6.783>
- ➔ Chitour, M., Bouhadra, A., Benguediab, M., Mansouri, K., Menasria, A., & Tounsi, A. (2022). A New High Order Theory for Buckling Temperature Analysis of Functionally Graded Sandwich Plates Resting on Elastic Foundations. *Journal of Nano-and Electronic Physics*, 14(3). [https://doi.org/10.21272/jnep.14\(3\).03028](https://doi.org/10.21272/jnep.14(3).03028).
- ➔ Ali Rachedi, M., Bouhadra, A., Mamen, B. et al. Assessment of the effect of the materials composition on the bending response of FG plates lying on two models of elastic foundations in thermo-hygro-mechanical environments. *Acta Mech* 234, 6315–6340 (2023). <https://doi.org/10.1007/s00707-023-03696-y>.
- ➔ Messaoudi, A., Bouhadra, A., Menasria, A. et al. Impact of the Shear and Thickness Stretching Effects on the Free Vibrations of Advanced Composite Plates. *Mech Compos Mater* 59, 1001–1018 (2023). <https://doi.org/10.1007/s11029-023-10148-0>.
- ➔ Mamen, B., Bouhadra, A., Bourada, F. et al. Combined Effect of Thickness Stretching and Temperature-Dependent Material Properties on Dynamic Behavior of Imperfect FG Beams Using Three Variable Quasi-3D Model. *J. Vib. Eng. Technol.* 11, 2309–2331 (2023). <https://doi.org/10.1007/s42417-022-00704-8>.
- ➔ Lekouara, Laid, Belgacem Mamen, Abdelhakim Bouhadra, Abderahmane Menasria, Kouider Halim Benrahou, Abdelouahed Tounsi, and Mohammed A. Al-Osta. "Theoretical buckling analysis of inhomogeneous plates under various thermal gradients and boundary conditions." *Structural Engineering and Mechanics, An Int'l Journal* 86, no. 4 (2023): 443-459. DOI: <https://doi.org/10.12989/sem.2023.86.4.443>.
- ➔ Mourad Chitour, Soumia Benguediab, Abdelhakim Bouhadra, Fouad Bourada, Mohamed Benguediab & Abdelouahed Tounsi (2023) Effect of variable volume fraction distribution and geometrical parameters on the bending behavior of sandwich plates with FG isotropic face sheets, *Mechanics Based Design of Structures and Machines*, DOI: 10.1080/15397734.2023.2197036.
- ➔ Tounsi, A., Mostefa, A.H., Bousahla, A.A., Tounsi, A., Ghazwani, M.H., Bourada, F., & Bouhadra, A. (2023). Thermodynamical bending analysis of P-FG sandwich plates resting on

nonlinear visco-Pasternak's elastic foundations. *Steel and Composite Structures* , 49 (3), 307–323. <https://doi.org/10.12989/SCS.2023.49.3.307>.

➔ Tamrabet, A., Mamen, B., Menasria, A., Bouhadra, A., Tounsi, A., Ghazwani, M. H., Alnujaie, A., & Mahmoud S.R. (2023). Buckling behaviors of FG porous sandwich plates with metallic foam cores resting on elastic foundation. *Structural Engineering and Mechanics*, 85 (3), 289–304. <https://doi.org/10.12989/sem.2023.85.3.289>.

➔ Hadji, M., Bouhadra, A., Mamen, B., Menasria, A., Bousahla, A. A., Bourada, F., ... & Tounsi, A. (2023). Combined influence of porosity and elastic foundation parameters on the bending behavior of advanced sandwich structures. *Steel and Composite Structures*, 46(1), 1-13. <https://doi.org/10.12989/scs.2023.46.1.001>.

➔ Chitour, Mourad, Abdelhakim Bouhadra, Fouad Bourada, Belgacem Mamen, Abdelmoumen Anis Bousahla, Abdelouahed Tounsi, Abdeldjebbar Tounsi, Mohamed Abdelaziz Salem, and Khaled Mohamed Khedher. "Stability analysis of imperfect FG sandwich plates containing metallic foam cores under various boundary conditions." In *Structures*, vol. 61, p. 106021. Elsevier, 2024.

➔ Boutrid, A., Rebai, B., Mamen, B. et al. Combined effect of temperature dependent material properties and boundary conditions on non-linear thermal stability of porous FG beams. *Acta Mech* (2024). <https://doi.org/10.1007/s00707-024-03860-y>.

➔ Lafi, Djamel Eddine, Abdelhakim Bouhadra, Belgacem Mamen, Abderahmane Menasria, Mohamed Bourada, Abdelmoumen Anis Bousahla, Fouad Bourada, Abdelouahed Tounsi, Abdeldjebbar Tounsi, and Murat Yaylaci. "Combined influence of variable distribution models and boundary conditions on the thermodynamic behavior of FG sandwich plates lying on various elastic foundations." *Structural Engineering and Mechanics* 89, no. 2 (2024): 103.