

Dr. Abdessalem Hajlaoui



Partly delaminated composite plate. From: Abdessalem Hajlaoui, Abdessalem Jarraya, Mondher Wali and Fakhreddine Dammak, "A higher order shear strain enhanced solid-shell element for laminated composites structures analysis", in Multiphysics Modelling and Simulation for Systems Design and Monitoring, pp 497-506, 2015, Springer

See: https://scholar.google.ca/citations?user=f9EjX4MAAAAJ&hl=en

Research Unit of Mechanical, Modelisation and Manufacturing Unit (U2MP), National School of Engineering of Sfax, Sfax, Tunesia

Selected Publications:

Abdessalem Hajlaoui, Abdessalem Jarraya, Imen Kallel-Kamoun and Fakhreddine Dammak, "Buckling analysis of a laminated composite plate with delaminations using the enhanced assumed strain solid shell element", Journal of Mechanical Science and Technology 26 (10) (2012) 3213~3221

Mondher Wali, Abdessalem Hajlaoui, Jamel Mars, K. El Bikri, Abdessalem Jarraya and Fakhreddine Dammak, "FGM Shell structures analysis using an enhanced discrete double directors shell element", in Mechatronic Systems: Theory and Applications, pp 131-147, 2014, Springer

Wali, M., Hajlaoui, A., Dammak, F., (2014). Discrete double directors shell element for the functionally graded material shell structures analysis. Computer Methods in Applied Mechanics and Engineering 278:388-403 Hajlaoui, A., Jarraya, A., El Bikri, K., Dammak, F., (2015). Buckling analysis of functionally graded materials structures with enhanced solid-shell elements and transverse shear correction. Composite Structures 132:87-97 Abdessalem Hajlaoui, Abdessalem Jarraya, Mondher Wali and Fakhreddine Dammak, "A higher order shear strain enhanced solid-shell element for laminated composites structures analysis", in Multiphysics Modelling and Simulation for Systems Design and Monitoring, pp 497-506, 2015, Springer

Frikha, A., Wali, M., Hajlaoui, A., Dammak, F., (2016). Dynamic response of functionally graded material shells with a discrete double directors shell element. Composite Structures 154: 385-395 Hajlaoui, A., Wali, M., Ben Jdidia, M., Dammak, F., (2016). An improved Enhanced Solid Shell Element for Static and Buckling Analysis of shell structures, Mechanics & Industry, 17:510 A. Hajlaoui, E. Triki, A. Frikha, M. Wali and F. Dammak, "Nonlinear dynamics analysis of FGM shell structures with a higher order shear strain enhanced solid-shell element", Latin American Journal of Solids and Structures, Vol. 14, No. 1, Rio de Janeiro, January 2017

Abdessalem Hajlaoui, Emna Triki, Ahmed Frikha, Mondher Wali and Fakhreddine Dammak, "Nonlinear dynamics analysis of FGM shell structures with a higher order shear strain solid-shell element", Latin American Journal of Solids and Structures, Vol. 14, No. 1, pp 72-91, 2017

A. Hajlaoui, E. Triki, A. Frikha and F. Dammak, "Non-linear dynamics analysis of multilayer composite shells with enhanced solid-shell elements", Advances in Acoustics and Vibration, pp 291-300, 2017