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Aerospace Structures and Computational Mechanics
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Selected Publications:

A. Khani, M. M. Abdalla, and Z. Gürdal, “Circumferential stiffness tailoring of general cross section cylinders for maximum buckling load with strength constraints,” *Composite Structures*, vol. 94, no. 9, pp. 2851–2860, Sep. 2012.

Syed Abu Bakar, S.N., Abdalla, M.M., Faris, W.F. and Ihsan, S.I. (2012), “Axisymmetric vibration analysis of isotropic circular plate with attached annular piezoceramic plate”, *Int. J. Vehicle Noise and Vibration*, Vol. 88, No. 4, pp 302-317

A. Khani, S. T. IJsselmuiden, M. M. Abdalla, and Z. Gürdal, “Design of variable stiffness panels for maximum strength using lamination parameters,” *Composites Part B: Engineering*, vol. 42, no. 3, pp. 546–552, Apr. 2011

A parametric study on supersonic/hypersonic flutter behavior of aerothermoelastic geometrically imperfect curved skin panel, Laith K. Abbas, Xiaoting Rui, P. Marzocca, M. Abdalla, R. De Breuker, *Acta Mechanica*, pp. 1-17, 2011

Isogeometric design of elastic arches for maximum fundamental frequency, Attila P. Nagy, Mostafa M. Abdalla, Zafer Gürdal, *Structural and Multidisciplinary Optimization*, vol. 43, no. 1, pp. 135-149, 2011

A Generic Morphing Wing Analysis and Design Framework, Roeland De Breuker, Mostafa M. Abdalla, Zafer Gürdal, *Journal of Intelligent Material Systems and Structures*, vol. 22, no. 10, pp. 1025-1039, 2011

Optimization of Variable-Stiffness Panels for Maximum Buckling Load Using Lamination Parameters, Samuel T. IJsselmuiden, Mostafa M. Abdalla, *AIAA Journal*, vol. 48, no. 1, pp. 134-143, 2010

Ahmad Alhajahmad, Mostafa M. Abdalla and Zafer Gürdal (Delft University of Technology, 2629 HS Delft, The Netherlands), "Optimal Design of Tow-Placed Fuselage Panels for Maximum Strength with Buckling Considerations", *AIAA Journal of Aircraft*, Vol. 47, No., 3, May–June 2010, doi: 10.2514/1.40357

M. M. Abdalla, Z. Gürdal, and G. F. Abdelal. Thermo-mechanical response of variable-stiffness composite panels. *Journal of Thermal Stresses*, 32:187–208, 2009

Shahriar Setoodeh, Mostafa M. Abdalla, Samuel T. IJsselmuiden and Zafer Gürdal (Faculty of Aerospace Engineering, Delft University of Technology, Kluyverweg 1, 2629 HS Delft, The Netherlands), "Design of variable-stiffness composite panels for maximum buckling load", *Composite Structures*, Vol. 87, No. 1, January 2009, pp. 109-117, doi:10.1016/j.compstruct.2008.01.008

Alhajahmad, A., Abdalla, M.M., and Gürdal, Z., "Design Tailoring for Pressure Pillowing Using Tow-Placed Steered Fibers," *Journal of Aircraft*, Vol. 45, No. 2, 2008, pp. 630–640. doi:10.2514/1.32676

Alhajahmad A, Abdalla M M and Gürdal Z. Optimal Design of a Pressurized Fuselage Panel with a Cutout Using Tow-Placed Steered Fibers. In *Proceedings of the International Conference on Engineering Optimization*. Rio de Janeiro, Brazil, 2008

IJsselmuiden S T, Abdalla M M and Gürdal Z. Implementation of Strength Based Failure Criteria in the Lamination Parameter Design Space. In *Proceedings of the 48th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials (SDM) Conference*. Honolulu, HI, USA, 2007

S. Setoodeh, M. M. Abdalla, and Z. Gürdal, "Design of variable–stiffness laminates using lamination parameters," *Composites Part B: Engineering*, vol. 37, no. 4–5, pp. 301–309, Jun. 2006.

P. Tiso, M.M.Abdalla , E.L. Jansen Delft University of Technology, Delft, The Netherlands, "Koiter's Post-Buckling Analysis of General Shell Structures Using the Finite Element Method", 25th International Congress of the Aeronautical Sciences, ICAS 2006.