

Professor Hesham Hamed Ibrahim

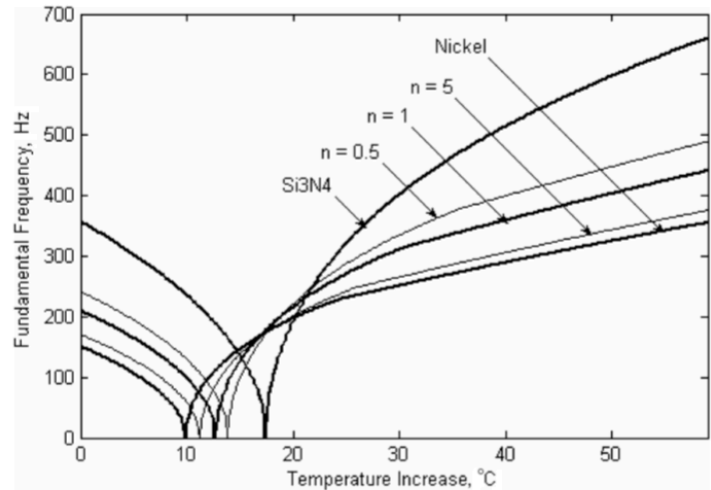


Fig. 5 Natural frequencies in the prebuckled and postbuckled regions for different volume fraction exponents n .

From: Ibrahim, H. H., Tawfik, M., and Al-Ajmi, M., "Thermal Buckling and Nonlinear Flutter Behavior of Functionally Graded Material Panels," *Journal of Aircraft*, Vol. 44, No. 5, 2007, pp. 1610–1618.

See:

<https://scholar.google.com/citations?user=8SU00eQAAAAJ&hl=th>

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Selected Publications:

Ibrahim, H. H., Tawfik, M., and Al-Ajmi, M., "Aero-Thermo-Mechanical Characteristics of Functionally Graded Material Panels with Temperature-Dependent Material Properties," *Proceedings of the 8th International Congress of Fluid Dynamics and Propulsion (ICFDP 8)*, American Society of Mechanical Engineers, ICFDP-EG-116, 2006.

Ibrahim, H. H., Tawfik, M. and Negm, H. M., "Thermal Postbuckling and Flutter Behavior of Shape Memory Alloy Hybrid Composite Plates," *Proceedings of the 8th International Congress of Fluid Dynamics and Propulsion (ICFDP 8)*, American Society of Mechanical Engineers, ICFDP-EG-153, 2006.

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Ibrahim, H. H., Tawfik, M., and Al-Ajmi, M., "Non-Linear Panel Flutter for Temperature-Dependent Functionally Graded Material Panels," *Computational Mechanics*, Vol. 41, No. 2, 2008, pp. 325–334.

Ibrahim, H. H., Tawfik, M. and Negm, H. M., "Thermo-acoustic Random Response of Shape Memory Alloy Hybrid Composite Plates," *Journal of Aircraft*, Vol. 45, No. 3, 2008, pp. 962-970.

Ibrahim, H. H., Tawfik, M., Yoo, H. H., and Lee, K. S., "Aero-Thermo-Mechanical Characteristics of Shape Memory Alloy Hybrid Composite Panels with Initial Geometric Imperfection", *Proceedings of the 15th International Congress on Sound and Vibration (ICSV15)*, Daejeon, South Korea, 2008.

H.H. Ibrahim and H.H. Yoo, "Nonlinear flutter oscillations of composite shallow shells subject to aerodynamic and thermal loads", *13th International Conference on Aerospace Sciences & Aviation Technology (ASAT)*, May 26-28, 2009, Military Technical College, Kobry Elkobbah, Cairo, Egypt

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Hesham Hamed Ibrahim, Hong Hee Yoo, Kwan-Soo Lee, "Thermal buckling and flutter behavior of shape memory alloy hybrid composite shells", *Journal of Aircraft*, Vol. 46, No. 3, pp 895-902, May 2009

Ibrahim, H.H., Tawfik, M., Negm, H.M.: Aerothermoacoustic response of shape memory alloy hybrid composite panels. *J. Aircraft* 46(5), 1544–1555 (2009).

H. H. Ibrahim, H. H. Yoo, M. Tawfik, and K.-S. Lee, “Thermo-acoustic random response of temperature-dependent functionally graded material panels,” *Computational Mechanics*, vol. 46, no. 3, pp. 377–386, 2010.

Hesham Hamed Ibrahim, Mohammad Tawfik, “Limit-cycle oscillations of functionally graded material plates subject to aerodynamic and thermal loads”, *Journal of Vibration and Control*, Vol. 16, No. 14, pp 2147-2166, December 2010

Ibrahim, H.H., Tawfik, M. and Negm, H.M. (2011), “Thermal buckling and nonlinear flutter behavior of shape memory alloy hybrid composite plates”, *J. Vib. Control*, 17, 321-333.

Mostafa A El Absawy, Zakaria Elnaggar, Hesham H Ibrahim, “Dynamic Behavior of Variable Cross-Section Offshore Wind Turbine with Flexible Foundation Using Finite Element Method”, *Journal of Physics: Conference Series*, 1264/1, IOP Publishing, July 2019

Mostafa A El Absawy, Zakaria Elnaggar, Hesham H Ibrahim, “Semi Analytical Model for the Dynamic Behavior of Offshore Wind Turbine with Flexible Foundation”, *Journal of Physics: Conference Series*, 1264/1, IOP Publishing, July 2019