

## Publications related with the Energy Finite Element Analysis

1. N. Vlahopoulos, K. Wu, S. Medyanik, "Energy Finite Element Analysis for Structural-Acoustic Design of Naval Vehicles," *Journal of Ship Production and Design*, Vol. 28, No. 1, February 2012, pp. 42–48.
2. N. Vlahopoulos, S. Lee, N. Schiller, "Energy Finite Element Analysis Developments for Vibration Analysis of Composite Aircraft Structures," *SAE International Journal of Aerospace*, SAE- 2011-01-1734, November 2011.
3. S. Lee, N. Vlahopoulos, A. Waas, "Analysis of wave propagation in a thin composite cylinder with periodic axial and ring stiffeners using periodic structure theory," *Journal of Sound and Vibration*, Volume 329, Issue 16, 2 August 2010, Pages 3304-3318.
4. A. Wang, N. Vlahopoulos, "Vehicle NVH Analysis Using EFEA and EBEA Methods," *SAE Int. J. Passeng. Cars – Mech. Syst.*, **2**(1): 814-821, 2009.
5. G. Zhang, N. Vlahopoulos, "A substructuring formulation for the energy finite element analysis," SAE Paper No. 2007-01-2325, SAE 2007 Transactions Journal of Passenger Cars – Mechanical Systems.
6. G. Zhang, and N. Vlahopoulos, "Validation of an EFEA formulation for computing the vibrational response of complex structures," SAE Paper No. 2007-01-2324, SAE 2007 Transactions Journal of Passenger Cars – Mechanical Systems.
7. S.B. Hong, N. Vlahopoulos, "A hybrid finite element formulation for computing structure – borne vibration in a body in white," SAE Paper 2006-01-1224, SAE 2006 Transactions Journal of Passenger Cars – Mechanical Systems.
8. S.B. Hong, A. Wang, N. Vlahopoulos, "A Hybrid Finite Element Formulation for a beam plate system," *Journal of Sound and Vibration*, Vol. 298, 2006, pp. 233 – 256.
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11. A. Wang, N. Vlahopoulos, and K. Wu, "Development of an energy boundary element formulation for computation of sound radiation at high frequency," *Journal of Sound and Vibration*, Vol. 278, 2004, pp. 413-436.
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13. W. Zhang, A. Wang, and N. Vlahopoulos, "An Alternative Energy Finite Element Formulation based on Incoherent Orthogonal Waves and its Validation for Marine Structures," *Finite Elements in Analysis and Design*, Vol.38, 2002, pp. 1095-1113.

14. G. A. Borlase, N. Vlahopoulos, "An Energy Finite Element Optimization Process for Reducing High Frequency Vibration in Large Scale Structures," *Journal of Finite Element Analysis and Design*, Vol. 36, 2000, pp. 51-67.
15. N. Vlahopoulos, Xi Zhao, and T. Allen, "An Approach for Evaluating Power Transfer Coefficients for Spot-Welded Joints in an Energy Finite Element Formulation," *Journal of Sound and Vibration*, Vol. 220, No. 1, 1999, pp.135-154.
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19. Washington deLima, N. Vlahopoulos, R. Sbragio, J. He, "Interior Aircraft Noise Computations due to TBL Excitation using the Energy Finite Element Analysis," SAE Paper 2009-01-2248, 2009 SAE Noise and Vibration Conference, May 2009.
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