

**Selected Publications**  
of  
**Hafiz M. Atassi**

1. "A Complete Second Order Theory for the Unsteady Flow About an Airfoil Due to a Periodic Gust," co-author, M. Goldstein, *Journal of Fluid Mechanics*, **74**, pp, 741-765, 1976.
2. "Acoustic-Vorticity Waves in Swirling Flows," co-author V.V. Golubev, *Journal of Sound and Vibration*, **209**(2), pp, 203-222, 1998.
3. "Unsteady Disturbances of Streaming Motions Around Bodies," co-author, J. Grzedzinski, *Journal of Fluid Mechanics*, **209**, pp, 385-403, 1989.
4. "Scattering of Incident Disturbances by an Annular Cascade in a Swirling Flow," co-authors, A.A. Ali, O.V. Atassi, and I.V. Vinogradov, *Journal of Fluid Mechanics*, **499**, pp, 111-138, 2004.
5. "Modeling Tonal and Broadband Interaction Noise," co-author M.M. Logue, IUTAM Symposium on Computational Aeroacoustics for Aircraft Noise Prediction," Elsevier, to appear 2010, [www.southampton.ac.uk/~gabard/IUTAM/papers/atassi\\_h.pdf](http://www.southampton.ac.uk/~gabard/IUTAM/papers/atassi_h.pdf).
6. "The Sears' Problem for a Lifting Airfoil Revisited - New Results," *Journal of Fluid Mechanics*, **141**, pp. 109-122, 1984.
7. "Unsteady Aerodynamics of Vortical Flows: Early and Recent Developments," Symposium on Aerodynamics & Aeroacoustics, Ed. K.-Y. Fung, pp.121-172, World Scientific, 1994.
8. "A Finite-Difference Frequency Domain Numerical Scheme for the Solution of the Gust Response Problem," co-author J.R. Scott, *Journal of Computational Physics*, 119(1), pp. 75-93, 1995.
9. "Acoustic Interference in Unsteady Transonic Nozzle and Cascade Flows" co-authors J. Fang and P. Ferrand, *Unsteady Aerodynamics and Aeroelasticity in Turbomachines*, Ed., Y. Tanida and M. Namba, pp. 777-794, Elsevier Science B.V., 1995.
10. "Inverse Aeroacoustic Problem for a Streamlined Body. Part I: Basic Formulation" co- author S. Patrick and W.K. Blake, *AIAA Journal*, 34, No. 11, pp. 2233-2240, 1996.
11. "Unsteady Swirling Flows in Annular Cascades. Part 1. Evolution of Vortical Disturbances," co-author V. Golubev, *AIAA Journal*, 38, No.7, pp. 1142-1149, 2000.
12. "Acoustic radiation from a Thin Airfoil in Nonuniform Subsonic Flows," co-authors, M. Dusey and C.M. Davis, *AIAA Journal*, 31, No. 1, pp. 12-19, 1993.
13. "Direct Calculation of Sound Radiated from Bodies in Nonuniform Flows," co-authors, J. Fang and S. Patrick, *Journal of Fluid Engineering*, 115(4), pp. 573-579, 1993.
14. "A Domain Decomposition Method for the External Helmholtz Problem," co-author, R. Susan-Resiga, *Journal of Computational Physics*, 147(2), pp. 388-401 (December) 1998.
15. " Sound Propagation in an Annular Duct with Mean Potential Swirling Flow," co-author, V.V. Golubev, *Journal of Sound and Vibration*, **198**(5), pp, 601-616, 1996.