

Publications (partial list):

Archival Journal Publications

1. ***Van Zante, Dale**, “Large-Scale Simulations For Turbine Engine Core Noise,” to be published in the **International Journal of Aeroacoustics**, 2010.
2. ***Van Zante, D.**, Chen, J., Hathaway, M., and Chriss, R., “The Influence Of Compressor Blade Row Interaction Modeling On Performance Estimates from Time-Accurate, Multi-Stage, Navier-Stokes Simulations,” **ASME Journal of Turbomachinery**, Vol. 130, No. 1, January 2008. [presented at IGTI 2005]
3. *Wernet, Mark P., **Van Zante, Dale**, Strazisar, Tony J., John, W. Trevor, and Prahst, P. Susan, “Characterization of the tip clearance flow in an axial compressor using 3-D digital PIV,” **Experiments in Fluids**, Vol. 39, 2005.
4. ***Van Zante, Dale E.**, Adamczyk, John J., Strazisar, Anthony J., and Okiishi, Theodore H., “Wake Recovery Performance Benefit in a High-Speed Axial Compressor,” **ASME Journal of Turbomachinery**, Vol. 124, No. 2, April 2002. [presented at IGTI 1997]
5. **Van Zante, Dale E.**, Strazisar, Anthony J., Wood, Jerry R., Hathaway, Michael D., and Okiishi, Theodore H., “Recommendations for Achieving Accurate Numerical Simulation of Tip Clearance Flows in Transonic Compressor Rotors,” **ASME Journal of Turbomachinery**, Vol. 122, No. 4, October 2000. [presented at IGTI 1999]
6. **Van Zante, Dale E.**, Suder, Kenneth L., Strazisar, Anthony J., and Okiishi, Theodore H., “An Improved Aspirating Probe for Total-Temperature and Total-Pressure Measurements in Compressor Flows,” **ASME Journal of Turbomachinery**, Vol. 117, October 1995, pp. 642-649. [presented at IGTI 1994]

Technical Meeting Papers (peer reviewed manuscript):

7. ***Van Zante, Dale E.**, Podboy, Gary G., Miller, Christopher J., and Thorp, Scott A., “Testing And Performance Verification of a High Bypass Ratio Turbofan Rotor in an Internal Flow Component Test Facility,” presented at Turbo Expo 2007, Montreal, Canada, May 2007.
8. ***Van Zante, Dale E.**, To, Wai-Ming, and Chen, Jen-Ping, “Blade Row Interaction Effects on the Performance of a Moderately Loaded NASA Transonic Compressor Stage,” ASME Paper GT2002-30575, presented at Turbo Expo 2002, Amsterdam, The Netherlands, June 2002.

Technical Meeting Papers (abstract review only):

9. ***Van Zante, Dale** and Envia, Edmane, “Simulation of Turbine Tone Noise Generation Using a Turbomachinery Aerodynamics Solver,” presented at the AIAA Aeroacoustics Conference, Miami, Florida, May 2009.
10. ***Van Zante, Dale**, Envia, Edmane, and Turner, Mark, “The Attenuation of a Detonation Wave by an Aircraft Engine Axial Turbine Stage,” presented at ISABE 2007, Beijing, China, September 2007.
11. ***Van Zante, Dale E.**, Koch, L. Danielle, Wernet, Mark P., and Podboy, Gary G., “An Assessment of NASA Glenn’s Aeroacoustic Experimental and Predictive Capabilities for Installed Cooling Fans, Part 1: Aerodynamic Performance,” presented at InterNoise 2006, Honolulu, Hawaii, December 2006.