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Journal Papers, NASA TMs & Proceedings Papers:

1. Abdul-Aziz, A., Hady, F., Baaklini, G.Y., Gowayed, Y., Creighton, R., Lee, D., Trudell, J., "Manufacture and NDE of Multi-direction Composite Flywheel Rims," Journal of Reinforced Plastics and Composites, vol.24, #4, pp413-421, 2005
2. Abdul-Aziz, A., J. J. Trudell, George Y. Baaklini; "Finite Element Design Study of a Bladed, Flat Rotating Disk to Simulate Cracking in a Typical Turbine Disk", To appear in the Proceedings 10th SPIE's International Symposium on Nondestructive Evaluation for Health Monitoring and Diagnostics, March 6-10, 2005, San Diego, California USA.
3. Abdul-Aziz, A., Krause, D.L. "Combined Experimental and Analytical Study Using Cruciform Specimen for Testing Advanced Aeropropulsion Materials Under In-Plane Biaxial Loading"; presented at the 1st AIAA Multidisciplinary Design Optimization Specialist Conference, Austin, Texas, 18-21 April 2005.
4. Adamovsky, G., Juergens, J., and Floyd, B., "Applications of Unbalanced Interferometers to Evaluation of Responses from Fiber Bragg Gratings", Presented at the SPIE'05 Smart Structures and NDE Conference, March 2005
5. Adamovsky, G., Lekki, J., and Lock, J.A., "Processing of Signals From Fiber Bragg Gratings Using Unbalanced Interferometers," NASA / TM – 2005-213594
6. Bencic, T.J., Eldridge, J.I., "Smart Coatings for Health Monitoring and Nondestructive Evaluation", Proceedings 10th SPIE's International Symposium on Nondestructive Evaluation for Health Monitoring and Diagnostics, Volume 5767, San Diego, California, March 6-10, 2005
7. Cosgriff, L.M., Bhatt, R., Choi, S.R., Fox, D.S.; "Thermographic characterization of impact damage in SiC/SiC composite materials", Proceedings of SPIE, Vol. 5767, Andrew L. Gyekenyesi and Peter J. Shull, eds., 2005.
8. Galloway, T.R., Baaklini, G.Y., et al. Technical Report of the External Tank Independent Technical Assessment Team, February 2005
9. Geer R., Meyendorf N., Baaklini, G.Y., and Michel, B., Testing, Reliability, and Application of Micro- and Nanomaterial Systems III, the International Society for Optical Engineers (SPIE) Proceedings, volume 5766 , 2005

10. Ghosn, L.J. , Abdul-Aziz, A., Young, P.G., Rauser, R.W.; "Structural Assessment of Metal Foam Using Combined NDE and FEA", To appear in the Proceedings 10th SPIE's International Symposium on Nondestructive Evaluation for Health Monitoring and Diagnostics, March 6-10, 2005, San Diego, California USA.
11. Goswami, K., Majumdar, A. K., Kazemi, A. A., Adamovsky, G., and Chang, C. T., "Oxygen Sensor for Detecting OBIGGS Related Safety-Significant Malfunctions", 43rd AIAA Aerospace Science Meeting and Exhibit, Reno , NV, January 2005, Paper # AIAA-2005-1211
12. Gyekenyesi A., Martin R., Sawicki J., and Baaklini G., "Damage Assessment of Aerospace Structural Components by Impedance Based Health Monitoring," NASA TM-2005-213579.
13. Gyekenyesi, A.L., Sawicki, J.T., Martin, R. and Baaklini, G., "In-Situ Damage Assessment of a Rotating Disk", ASNT 14th Annual Research Symposium, Albuquerque, New Mexico, 14-18 March, 2005.
14. Juergens, J., Adamovsky, G., Bhatt, R., and Floyd, B., "Thermal Cycling of Fiber Bragg Gratings at Extreme Temperatures", 43rd AIAA Aerospace Science Meeting and Exhibit, Reno, NV, January 2005, Paper # AIAA-2005-1214
15. Juergens, J., Adamovsky, G., Bhatt, R., Morscher, G., and Floyd, B., "Thermal Evaluation of Fiber Bragg Gratings at Extreme temperatures", NASA / TM – 2005-213560
16. Krasowski, M.J., Lawrence Greer, Joseph Flatico, Phillip Jenkins, Dan Spina "A Hardware and Software Perspective of the Fifth Materials on the International Space Station Experiment (MISSE-5)," presentation at the SPRAT XIX Conference, , September 20 – 22, 2005.
17. Martin, R.E., Gyekenyesi, A.L., Sawicki, J.T., and Baaklini, G., "Structural Damage Assessment of Propulsion System Components by Impedance Based Health Monitoring", SPIE's 12th Annual International Symposium on Smart Structures and Materials, Volume 5770, San Diego, California, March 6-10, 2005.
18. Martin, R.E., Sawicki, J.T., Gyekenyesi, A.L., and Baaklini, G., "Impedance Based Structural Health Monitoring", ASNT 14th Annual Research Symposium, Albuquerque, New Mexico, 14-18 March, 2005.
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20. Mielke, A.F., Elam, K.A. "Molecular Rayleigh scattering diagnostic for measurement of high frequency temperature fluctuations," Proceedings of SPIE Optics and Photonics Conference, vol. 5880, San Diego, CA, Jul 31 – Aug 4, 2005.
21. Mielke, A.F., Seasholtz, R.G., Elam, K.A., Panda, J. "Time-average measurement of velocity, density, temperature, and turbulence velocity fluctuations using Rayleigh and Mie scattering," Exp in Fluids, published online first, 24 May 2005.
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- Space Shuttle Thermal Protection System”, Proceedings of the 29 th International Cocoa Beach Conference and Exposition on Advanced Ceramics & Composites, 2005.**
26. Roth, D.J., Mandlik, A., Sandhu; “Approaches for Non-uniformity Correction and Dynamic Range Extension for Acoustography”, SPIE ’05, March 4 - 9, 2005,
 27. Roth, D.J., Martin, R.E., Chelmins, D.T., Mandlik, A., Sandhu, J., Hertert, L.; “Quantitative Ultrasonic Imaging Using Liquid Crystal Display Technology”, American Society of Nondestructive Testing Fall Conference, Oct. 17 - 21, 2005.
 28. S.V. Raj, L.J. Ghosn, B.A. Lerch, M. Hebsur, L.M. Cosgriff, and M. Topolski. “An Evaluation of Lightweight Stainless Steel Foam Design Concepts for Fan and Propellar Blade Applications”. NASA/TM-2005-213620.
 29. Sawicki, J.T., Gyekenyesi, A.L., and Baaklini, G., “Vibration-Based Diagnostics of Cracked Disks”, ASNT 14th Annual Research Symposium, Albuquerque, New Mexico, 14-18 March, 2005.
 30. Sawicki, J.T., Wu, X., Gyekenyesi, A.L., and Baaklini, G., “Application of Nonlinear Dynamics Tools for Diagnosis of Cracked Rotor Vibration Signatures”, SPIE’s 12th Annual International Symposium on Smart Structures and Materials, Volume 5767, San Diego, California, March 6-10, 2005.
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 36. Wrbanek,J.D., G.C. Fralick, S.Y. Wrbanek, K.E. Weiland “Sonoluminescence: A Galaxy of Nanostars Created in a Beaker,” Research & Technology 2004, NASA Glenn Research Center at Lewis Field NASA /TM 2005-213419, p.47
 37. Wu, X., Sawicki, J.T., Friswell, M.I., and Baaklini, G., Finite Element Analysis of Coupled Lateral and Torsional Vibration of a Rotor with Multiple Cracks, Paper GT2005-68839, Turbo ASME Turbo Expo Conference, June 6-9, 2005, Reno-Tahoe, Nevada.

