

## **PUBLICATIONS**

### **Journal**

#### **2003**

1. Salem, J. A., and Manderscheid, J. M. (2003). "Stresses in a thin, circular aeolotropic plate subjected to uniform lateral load." *Journal of Physics D: Applied Physics*, 36(21), 2730-2737.

### **Conference Proceedings and Presentations**

#### **2000**

1. Salem, J., Manderscheid, J., and Jenkins, M. (2000). "Multiaxial strength testing of brittle single crystals." *Ceramic Engineering and Science Proceedings*, 21(3), 83-90.

#### **1998**

2. Salem, J., Noebe, R., and Manderscheid, J. (1998). "Reliability Modelling of Brittle Anisotropic Materials." *Ceramic Engineering and Science Proceedings*, 19(4), 57-64.

#### **1985**

3. Manderscheid, J. M., and Kaufman, A. (1985) "Cyclic Structural Analyses of Anisotropic Turbine Blades for Reusable Space Propulsion Systems." *JANNAF Propulsion Meeting*, San Diego, CA, CPIA Publication 425 1, 237-245.

### **NASA Tech Brief**

#### **1992**

1. Nemeth, N. N., Gyekenyesi, J. P., and Manderscheid, J. M. (1992). "Computing reliabilities of ceramic components subject to fracture." *NASA Tech Briefs*, 16(12), 60.

### **NASA Technical Reports**

#### **1991**

1. Salem, J. A., Manderscheid, J. M., Freedman, M. R., and Gyekenyesi, J. P. (1991). "Reliability analysis of a structural ceramic combustion chamber." *NASA TM-103264, ASME PAPER 91-GT-155*.

#### **1990**

2. Duffy, S. F., and Manderscheid, J. M. (1990). "Noninteractive macroscopic reliability model for ceramic matrix composites with orthotropic material

- symmetry." *Journal of Engineering for Gas Turbines and Power*, 112(4), 507-511, NASA-TM-101414, ASME 89-GT-129.
3. Nemeth, N. N., Manderscheid, J., and Gyekenyesi, J. P. (1990). "Ceramics Analysis and Reliability Evaluation of Structures (CARES). Users and programmers manual." NASA-TP-2916, NASA.
  4. Nemeth, N. N., Manderscheid, J. M., and Gyekenyesi, J. P. (1990). "Design of ceramic components with the NASA/CARES computer program." NASA TM - 102369.

#### **1989**

5. Duffy, S. F., Manderscheid, J. M., and Palko, J. L. (1989). "Analysis of whisker-toughened ceramic components. A design engineer's viewpoint." *American Ceramic Society Bulletin*, 68(12), 2078-2083, NASA-TM-102333.
6. Nemeth, N. N., Manderscheid, J. M., and Gyekenyesi, J. P. (1989). "Designing ceramic components with the CARES computer program." *American Ceramic Society Bulletin*, 68(12), 2064-2072.

#### **1988**

7. Manderscheid, J. M. (1988) "Monolithic Ceramic Analysis Using the SCARE Program." *Lewis Structures Technology--1988. Vol. 3--Structural Integrity, Fatigue and Fracture, Wind Turbines, HOST*, Cleveland, Ohio; USA, NASA CP-3003 3, 5-20.

#### **1987**

8. Manderscheid, J. M., and Gyekenyesi, J. P. (1987). "Fracture mechanics concepts in reliability analysis of monolithic ceramics." NASA TM-100174.

#### **1986**

9. Kaufman, A., and Manderscheid, J. M. (1986). "Simplified Cyclic Structural Analysis of SSME Turbine Blades." NASA-TM-87214.

#### **1985**

10. Kaufman, A., and Manderscheid, J. (1985) "Cyclic structural analyses of SSME turbine blades." *Structural Integrity and Durability of Reusable Space Propulsion Systems*, NASA-CP-2381, 147-154.