



Mining American Volume 50

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 124 pages. Original publisher: Cleveland, Ohio : National Aeronautics and Space Administration, Glenn Research Center ; Hanover, MD : Available from NASA Center for Aerospace Information, 2001. OCLC Number: (OCoLC)51651558 Excerpt: . . . studies were performed to determine the optimum applied voltage, actuator layout, and actuator number for shape control of composite plates with distributed piezoelectric actuators. Chattopadhyay et al. (1999) implemented a third-order laminate theory into a finite element formulation to investigate the dynamic response of delaminated smart composite plates. Numerical studies were conducted on piezoelectric composite plates with single and multiple delaminations to demonstrate changes in the dynamic response. Hong and Chopra (1999) developed an induced strain plate finite element for composite plates based on classical laminate theory. The model was verified with experimental results and demonstrated the capability to achieve shape control using piezoelectric actuators. 2. 2. 2 Actuator and Sensor Models Lee and Moon (1989) studied the control and sensing of bending and torsional deformations produced by an applied electric field using piezopolymer bimorphs. The experimental results validated the analytical model and demonstrated the use of piezopolymers...



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