

## Mining American Volume 50



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## MINING AMERICAN VOLUME 50



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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 as actuators. Lee ( 1990 ) developed a model that incorporated the piezoelectric constitutive relations. The model was based on classical laminated plate theory and was able to predict both the active and sensory behavior of piezoelectric materials. Lee et al. ( 1991 ) investigated the use of sensor actuator pairs for active damping control. Experimental studies were conducted on the active damping control of the first mode of a cantilevered plate using a sensor and actuator pair to validate the piezoelectric plate theory. Chandrashekhara and Agarwal ( 1993 ) developed a laminated piezoelectric plate element based on a first-order...



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