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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 46 pages. Original publisher: Aberdeen Proving Ground, MD : Army Research Laboratory, 2001 OCLC Number: (OCoLC)695031489 Subject: Coatings. Excerpt: . . . 2. Structural Calculation Methodology The coupled thermomechanical stress state of the barrel with a coating is required to determine the interfacial loads which contribute to coating breakdown. In order to solve for interfacial shear stresses between a coating and base material in an axisymmetric plane stress situation, the principal stresses must be computed for both coating and base material. It is important to note that the calculations contained within this report assume that the initial state of the tube and coating are inclusion free of the unstressed state. That is, residual stresses due to plating and autofrettage are not present. nominal stress state is possible in future work. Following Timoshenko and Goodier (1970), denote the following equation of equilibrium, where r , θ , and z denote radial, azimuthal, and axial directions. 3 or $r = 0$, $\theta = 1$ are with the following Poisson's relations for E strains, with α the CTE and ν the Poisson's coefficient, $\sigma_r = \frac{1}{2}(\sigma_{\theta} + \sigma_z) - \frac{1}{2}(\sigma_{\theta} - \sigma_z)$, $\sigma_{\theta} = \frac{1}{2}(\sigma_r + \sigma_z) + \frac{1}{2}(\sigma_{\theta} - \sigma_z)$ and...



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