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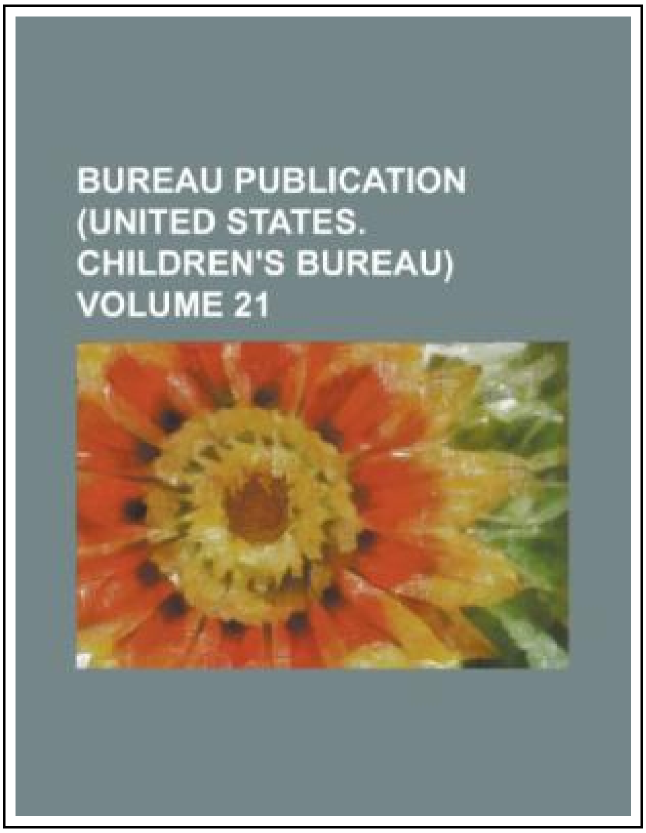

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 206 pages. Original publisher: College Station, Texas : Mechanics and Materials Center, Texas A and M University ; Hampton, VA : NASA Langley Research Center, 1990 OCLC Number: (OCoLC)65174342 Excerpt: . . . the relative magnitudes of the available and required thermodynamic on forces, r (f 3), , . can be used for this model, I). . . (9) Thc implementation of this criterion will requite the determination of the required thermodynamic forces. The required thermodynamic forces are mos: likely to change with the damage state-. This cnterior, is analogous to comparing the strain energy release rate to the critical value in fracture mechanics. End the internal stale variable been defined as the crack sur-face area, the thermodynamic force would be identical to the strain energy release rate. One approach to the formulation of the interna state variable evolution-arv relationships is through micromechanical considerations. However. this approach is dependent on the availability of micromechanica ! solutions tha can model the essential physical characteristics of the damage state. For the problem of matrix cracks embe (, ded in an orthotropic medium that is layered between two other orthotropic media, the solutions that are cur-rently available are applicable only to very specific loading conditions and damage geometries. Therefore, the evolutionary equation proposed herein is phenomenological in nature. The form of the damage evolutionary rela-tionship employed in this paper is based on the observation made by Wang, e at. (1984) that for some materials the rate of damage surface evolution per load step, ; follows the power law as shown below, in which the strain energy release rate, G, and a material parameter, n, serves as the basis and exponent, respectively. dS-- pG (...

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