



Deutsche Revue (26)

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 46 pages. Original publisher: Aberdeen Proving Ground, MD : Army Research Laboratory, 1999 OCLC Number: (OCoLC)308722675 Subject: Composite materials. Excerpt: . . . For an isotropic region, equations (5x9) can be greatly reduced and simplified since the material properties are the same in hoop and axial directions (i. e. , D , D , , E E X , and v , v , ,). Accordingly, the critical velocity can be expressed as 2. 3 Finite Element Modeling. The closed-form solution described in section 2. 1 can be applied accurately to a cylindrical shell under the assumption of infinite length. For a finite length cylinder with varying cross-sectional area along its length and multimaterial construction, the finite element method allows for a more expedient and straightforward procedure for determining the critical velocity. A hydrodynamic finite element code, DYIWUD, was modified to simulate the moving-pressure boundary condition. As shown in Figure 1, a slideline that allows a dummy material block to move freely along the axial direction of the cylinder is included in the finite element model of the cylinder. The instantaneous location of the pressure front is then...



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