

Spall Fracture Shock Wave High Pressure

shock propagation and fracture in 6061-t6 aluminum from ... - technique was used in conducting the shock wave and fracture studies described in this paper. this method gives close control over stress-time history of the input pulse, permits change in the shape of the spall-producing tensile pulse, is incompatible with the use of high-resolution diagnostic techniques, and permits easy recovery of test ... **influence of complex stress state on spall fracture in high ...** - influence of complex stress state on spall fracture in high-purity copper xiaoyang pei, changming hu, national key laboratory of shock wave and detonation physics, institute of fluid physics, meilan qi, school of science, wuhan university technology, hongliang he, national key labora- **deformation behavior and spall fracture of the hadfield ...** - deformation behavior and spall fracture of the hadfield steel under shock-wave loading s. f. gnyusov,1 v. p. rotshtein,2 s. d. polevin,3 and s. a. kitsanov3 udc 538.591; 620.178.3 comparative studies of regularities in plastic deformation and fracture of the hadfield polycrystalline steel **wave propagation and dynamic fracture in laser shock ...** - laser shock-loaded solid materials ... on the other hand, spall fracture results from wave interaction, so that post-test observations of the residual damage in recovered samples (location, sizes and ... wave propagation and dynamic fracture in laser shock-loaded solid materials 1 **meshfree simulations of spall fracture - citeseerxtu** - shock wave induced spall fracture is a complex multiscale phenomenon, and it is a challenge to build a constitutive and computational model that can capture the essential features of the spall fracture. **spall-fracture physics and spallation-resistance-based ...** - spall-fracture physics and spallation-resistance-based material selection m. grujicic, b. pandurangan, b.a. cheeseman, and c.-f. yen ... spall-fracture physics and spallation-resistance-based material selection 5a. contract number 5b. grant number ... dimensional analysis of the spall-fracture process in the weak-shock regime in which the ... **fracture mechanics model of stone comminution in eswl and ...** - basic fracture concepts is given, followed by a description of the cohesive zone model and an analysis of spall failure with this model. the number of shocks for spall failure are calculated using typical shock wave parameters and stone properties. similar calculations can also be **the mechanics of spall fracture in rock and concrete** - spalling is a wave-induced dynamic fracture phenomenon. the waves can be either one: elastic, elasto-plastic, or shock waves. from a continuum mechanics point of view, fracture mechanics and wave propagation form the main ingredients in the formation of spalls. recently, however, **an experimental investigation of spall fracture in neat ...** - an experimental investigation of spall fracture in neat epoxy and an epoxy/carbon nanotube composite by jonathan pepper a thesis submitted to the faculty of graduate and postdoctoral affairs **spall fracture: methodological aspects, mechanisms and ...** - spall fracture: methodological aspects, mechanisms and governing factors g. i. kanel received: 1 september 2009 / accepted: 8 december 2009 / published online: 12 january 2010 ... the shock-wave pulses of varied ... just before the beginning of spall fracture. increasing the shock amplitude does not much influence the mag- **effect of shock-wave profile on brittle failure-arxiv** - the effect of shock-wave profile on dynamic brittle failure j.p. escobedo1, e.n. brown2, ... it has been well established that dynamic fracture or spall is a complex process strongly ... the effect of shock wave profile on spall strength is analogous to the effect of frequency and wave profile (typically sinusoidal, triangular, or square) on ...

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