

Abstract Submitted  
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**Diffusion of Dissipative Correlation in the Dynamic Failure of Solids** DENNIS GRADY, Applied Research Associates — A property identified as the dissipative action has found application as a unifying attribute underlying the dynamic failure of solid materials. Failure modes include tensile spall, impact-induced dynamic shear, shock compaction and steady shock-wave compression. The present work explores the possible application of Langevin dynamics and related statistical mechanical implications as underlying the extreme dynamic failure of solids.

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