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The Shock Compaction of Brittle Granular Materials: Particle Size Effects WILLIAM NEAL, Student, DAVID CHAPMAN, WILLIAM PROUD — Several continuum models can represent the shock compaction of brittle granular materials. Their success is limited by their insensitivity to mesoscopic features. There is therefore a need to quantify the effects of these mesoscopic features on the material's bulk shock response. impact experiments have been conducted on mono and bi-disperse glass microspheres with differing particle size distributions. Hugoniot relationships and shock-wave profile features are discussed with regard to the differences in particle size.

William Neal Student

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