Abstract Submitted
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Shock-Loading of Statically Compacted Sand DAVID CHAPMAN, CHRISTOPHER BRAITHWAITE, WILLIAM PROUD, University of Cambridge, UK — Herrmann's P-alpha model has recently been applied the behaviour of porous geological systems. The equation of state is broken into two distinct regions; uncompacted and a fully compacted. In an effort to improve understanding of the compaction process plate-impact experiments have been conducted on compacted sand. Sand is quasi-statically compacted prior to shock loading. The Hugoniot curve for the densified material is obtained and compared with that of the uncompacted material.

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