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The Behaviour of a Carbon-Fibre Epoxy Composite Under Shock Loading R. VIGNEJVIC, J.C.F. MILLETT, Cranfield University, N.K. BOURNE, University of Manchester, A. LUKYANOV, Cranfield University — Previous work in a glass-fibre epoxy composite has indicated that damage accumulates behind the shock front, and thus some of the shock-induced mechanical properties are pulse duration dependent. In this paper, we extend this work to a carbon-fibre epoxy composite. The shock response is investigated in terms of its equation of state (shock stress, shock velocity and particle velocity) and release wave speeds.

J.C.F. Millett
Cranfield University

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