

High Pressure Shock Compression Of Solids Iii Shock Wave And High Pressure Phenomena Pt 3

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The Hugoniot is the result of adiabatic, irreversible shock compression, resulting in a high-temperature state and a pressure offset from the isotherm and isentrope that increases with compression. At lower pressures where shock heating is small, the Hugoniot lies close to the isentrope (neglecting strength effects), but the curves diverge increasingly at higher pressure (Figure 3).

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temperature of the sample arbitrarily. But, the pressure available is rather limited and for any increase of this limit one ...

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A shock wave compression results in a loss of total pressure, meaning that it is a less efficient method of compressing gases for some purposes, for instance in the intake of a scramjet. The appearance of pressure-drag on supersonic aircraft is mostly due to the effect of shock compression on the flow.

Shock wave - Wikipedia

Preface This is the eighth in a series of books published on High-Pressure Shock Compression of Solids. In this book, the emphasis is on the science and technology of high velocity impact, a ...

High-Pressure Shock Compression of - ResearchGate

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An estimated strength of 435 MPa is obtained, for a strain rate of $1.3 \times 10^7 \text{ s}^{-1}$. The threshold stress for deformation twinning in shock compression is calculated from the constitutive equations for slip, twinning, and the Swegle–Grady relationship. The calculated threshold pressure for the orientation is 16.3 GPa.

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structure of the high-pressure phase(s) on the quartz Hugoniot remain unresolved. Recently, in situ x-ray diffraction (XRD) measurements under gas-gun loading have shown that fused silica remains...

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Single- and reflected-shock compression measurements on single-crystal ilmenite (FeTiO_3) to pressures of 635 and 930 kbar, respectively, demonstrate anomalously large compressions above ~ 320 kbar and imply the onset of one or more major phase changes at this pressure level which continue to occur to at least ~ 600 kbar.

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