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High-Pressure Shock Compression of Solids VII: Shock Waves and Extreme States of Matter (Shock Wave and High Pressure Phenomena) Softcover reprint of hardcover 1st ed. 2004 Edition by Vladimir E. Fortov (Author), L.V. Altshuler (Author), R.F. Trunin (Author), & ISBN-13: 978-1441919199. ISBN-10: ...

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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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The shock heating and compression of solids covers a wide range of temperatures and densities. For example, the temperature may be as high as a few electron volts (1 eV = 11,500 K) for very strong shocks and the densification may be as high as four times the normal density.

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Much of the current interest in shock compression of porous solids stems from the desire to bond hard, refractory powders into strong and dense solids. However, while much is known

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Flame, 159 (2012) 2219–2232.) for the oxidation of n-propylbenzene in a high-pressure shock tube. The data was obtained for equivalence ratios of 0.29, 0.48, 0.96, and 1.92, at compressed gas pressures of 10, 30 and 50 atm, and over the

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temperature range of 650–1000 K. Experimental data was also obtained at 50 atm for all equivalence ratios in our new heated high-pressure shock tube and this is also presented here.

A high-pressure rapid compression machine study of n ...

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High-Pressure Shock Compression of Solids VIII: The ...

The Hugoniot of quartz has been measured using laser-driven shock waves with pressures from 2 to 15 Mbars. Within this pressure range silica transforms from a liquid near melt into a dense plasma. Results are in good agreement with previous studies in part of this range performed using explosive- and

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nuclear-driven shocks indicating the absence of time-dependent effects for time scales between several hundred picoseconds and several hundred microseconds.

Shock compression of quartz in the high-pressure fluid ...

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

Introduction to high-pressure shock compression of solids / R.A. Graham --Basic principles of shock compression / M.B. Boslough and J.R. Asay --Experimental and diagnostic techniques / L.M. Barker, M. Shahinpoor, and L.C. Chhabildas --Equation of state / T.J. Ahrens --Inelastic constitutive relations / W. Herrmann

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For example, the temperature may be as high as a few electron volts (1 eV = 11,500 K) for very strong shocks and the densification may be as high as four times the normal density. High Pressure Shock Compression Of Solids Vii

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XRD measurements provide direct crystallographic evidence of the phase transition from α -quartz to a disordered high-pressure crystalline phase under shock compression, challenging long-standing...

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Structural response of α -quartz under plate-impact shock

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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 ...

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Since 1970, Dr. Gupta has been engaged in experimental and theoretical research related to shock wave and high pressure compression of condensed matter. His work has emphasized real-time examination and understanding of microscopic processes using a variety of time-resolved measurements and related analyses (optical spectroscopy, x-ray diffraction, and several continuum methods).

**Yogendra Gupta | Shock Physics | Washington State
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The shock compression of reactive powder mixtures can yield varied chemical behaviour with occurrence of mechanochemical reactions in the timescale of the high pressure state, or thermochemical reactions in the timescale of temperature equilibration, or simply the creation of dense packed highly reactive state of material.

Shock compression of reactive powder mixtures ...

Creating high pressures Shock compression. Many of the pioneering studies in mineral physics involved explosions or projectiles that subject a sample to a shock. For a brief time interval, the sample is under pressure as the shock wave passes through. Pressures as high as any in the Earth have been achieved by this method.

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