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And High

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data that reach a

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experimental data  
include wide-range  
Hugoniot for 80  
substances  
Mechanisms, kinetics  
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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 ( $1 \text{ eV} = 11,500 \text{ K}$ ) for very strong shocks and the densification may be as high as four times the normal density.

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**Pressure Shock  
Compression Of  
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High-pressure shock  
compression of solids  
Asay J.R., Shahinpoor  
M. (eds.) This book  
presents a set of basic  
understandings of the  
behavior and response  
of solids to propagating  
shock waves. The  
propagation of shock  
waves in a solid body is  
accompanied by large  
compressions,  
decompression, and

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shear.

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**High-pressure shock  
compression of  
solids VII : shock ...**

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

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compression on the  
flow.

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### **Shock wave - Wikipedia**

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The Topical Group on Shock Compression of Condensed Matter (SHOCK or SCCM) is a Unit of the American Physical Society (APS). The objective of the SCCM is the advancement and dissemination of knowledge on the physics of materials under dynamic high-pressure loading

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including shock

physics, the effect of

shock waves on

materials, dynamic

behavior ...

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**Shock Compression  
of Condensed Matter  
- Wikipedia**

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 ( $1 \text{ eV} =$

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11,500 K) for very strong shocks and the densification may be as high as four times the normal density.

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(SHOCKWAVE) Abstract  
Shock waves are the  
ubiquitous result of

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matter moving at velocities faster than the speed at which adjacent material can move out of the way.

Pressure

## **Basic Principles of Shock Compression | SpringerLink**

powder mixtures under shock-compression.

EXPERIMENTAL Shock recovery experiments were performed over a range of shock pressures using the well designed and

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calibrated 12-capsule  
CETR-Sawaoka system  
for high shock  
pressures (60-1 00  
GPa) at two different  
velocities (1.9 km/s  
and 1.1 km/s), a  
modified 12-

## **SHOCK COMPRESSION OF QUARTZ ALUMINUM POWDERMIXTURES**

Much of the current  
interest in shock  
compression of porous  
solids stems from the

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desire to bond hard, refractory powders into strong and dense solids. However, while much is known about the effects of shock compression on monolithic materials, the unusual physical and chemical processes that take place when a porous medium is shocked have been ...

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Compression of**

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Compression Of

**Solids IV | SpringerLink**  
impact, such as produced by guns or by explosives. 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 ( $A \text{ eV} = 11,500 \text{ K}$ ) for very strong shocks and the densification may be as high as four times

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the normal density.

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