

### **mechanically alloyed metastable and pdf**

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### **Mechanically Alloyed, Metastable and Nanocrystalline Materials**

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### **Metastable, Mechanically Alloyed and Nanocrystalline**

High purity cobalt and titanium powders were equiatomicly mixed and mechanically alloyed. The microstructure and phase transformation occurred on the powder product during its densification ...

### **Metastability of Mechanically Alloyed and Spark Plasma**

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### **Metastable phases in mechanically alloyed Al Mn powder**

Another large part of the book covers the mechanical, electrochemical and magnetic properties of metastable and nanocrystalline materials. Overall, this publication provides a state-of-the-art overview of research results and technological developments in the field, and highlights the most recent achievements.

### **Metastable, Mechanically Alloyed and Nanocrystalline**

The oxidation behavior of Al-rich, metastable mechanically alloyed powders in the Al-Ti binary system has been examined in the context of their potential application in high-energy-density materials.

### **Oxidation of Mechanically Alloyed Al-rich Al-Ti Powders**

mechanical alloying technique is known to produce supersaturated phases. However, in the present work, it might be that the  $\hat{1}\pm$ -Mn supersaturated phase which was formed in the early stage of milling gradually transformed to  $\hat{1}^2$ -Mn.

### **Phase Stability in Mechanically Alloyed Mn-30at.%Al**

The  $\hat{1}^3 \leftrightarrow \hat{1}\pm$  transformation in mechanically alloyed Fe 60 Cu 40 nanocrystalline occurs in a wide temperature range; the transformation temperature is higher than that of the martensite transformation in as-cast Fe-Cu alloys, but is much lower than that of the allotropic transformation of pure Fe. These differences may be caused by the ...

### **Thermal decomposition of mechanically alloyed**

The mechanically alloyed high-nitrogen austenite is metastable and at about 600 Å°C partially transforms inversely to ferrite while the chromium nitride Cr<sub>2</sub>N precipitates. Acknowledgments The reported study was supported by Russian Foundation for Basic Research ( RFBR ), research Project no. 14-03-01125a .

### **XRD characterization of mechanically alloyed high-nitrogen**

The present investigation was undertaken with a view to produce metastable phases through mechanical alloying, and the present contribution reports on the formation of a supersaturated solid solution of manganese in aluminum and a new metastable f.c.c. phase in mechanically alloyed aluminum and manganese powder mixtures.

### **Metastable phases in mechanically alloyed Al Mn powder**

Section I: Basic and Applied Research Application of Metastable Transformation of Mechanically Alloyed Fe-Zn-Si in Equilibrium Phase Studies

### **Application of metastable transformation of mechanically**

Effect of milling on structural properties of mechanically alloyed Fe<sub>52</sub>Ni<sub>26</sub>B<sub>18</sub>Zr<sub>4</sub> system. increasingmilling time after 15 h, the plastic energy stored in the grain boundary region drives glassy phase in our system.

### **Structural evolution and magnetic properties of**

based, mechanically alloyed materials have been proposed to improve ignition and combustion rates as a result of the metastable phase transitions that occur at low temperatures

### **Reactions in Metastable Metal-based Reactive Powders**

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