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Intermetallic Compounds Volume 4 Magnetic

Fleischer is the editor of Intermetallic Compounds, Volume 4, Magnetic, Electrical and Optical Properties and Applications of, published by Wiley. From the Back Cover This volume is one of four, each of which consists of reprinted chapters from the highly acclaimed, comprehensive two-volume set Intermetallic Compounds: Principles and Practice. published in 1995.

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Intermetallic Compounds, Volume 4, Magnetic, Electrical ...

Preface to Volume 4. Contents of Volumes 1-3. 1. Permanent magnet materials based on 3d-rich ternary compounds (K.H.J. Buschow). 2. Rare earth-cobalt permanent magnets (K.J. Strnat). 3. Ferromagnetic transition metal intermetallic compounds (J.G. Booth). 4. Intermetallic compounds of actinides (V. Sechovskú and L. Havela). 5.

Handbook of Magnetic Materials, Volume 4 - 1st Edition

Some example includes shape memory

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alloys, permanent magnets, as well as caloric and hydrogen storage materials. This Special Issue aims to cover the latest research and development related to the magnetism, transport, and thermodynamic properties of intermetallic compounds.

Metals | Special Issue : Solid State Physics, Magnetic and ...

In this paper the most important magnetic properties of non-S-state ferromagnetic single crystalline REAl₂ (RE \equiv rare earth) intermetallic compounds with well localized 4f electrons are reviewed. Particular emphasis is placed on the static magnetization and on the magnetic excitations.

Magnetic properties of (rare earth)Al₂ intermetallic compounds

This third volume continues to set the standard in the field, as originally defined by the best-selling two-volume set 'Intermetallic Compounds - Principles

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Properties And Applications Of **Intermetallic Compounds -**

Principles and Practice | Wiley ...

An intermetallic compound MnSi shows magnetic long range order around 30K[1, 2]. The spin structure in the ordered state was revealed by neutron diffraction study[3] and the helical spin structure with a period of 180Å is well known[4 , 5].

Intermetallics - an overview | ScienceDirect Topics

An intermetallic (also called an intermetallic compound, intermetallic alloy, ordered intermetallic alloy, and a long-range-ordered alloy) is a type of metallic alloy that forms an ordered solid-state compound between two or more metallic elements. Intermetallics are generally hard and brittle, with good high-temperature mechanical properties. They can be classified as stoichiometric or ...

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The R_2Fe_{17} and $R_2Fe_{17}C$ intermetallic compounds are found to absorb approximately two atoms of nitrogen per formula unit on heating in ammonia or nitrogen. The interstitial nitrides retain the original Th_2Ni_{17} or Th_2Zn_{17} structures, but with a large increase in unit cell volume ($\approx 7\%$). Curie temperatures of $420\text{ }^\circ\text{C}$ are found when $R = Y$ and $470\text{ }^\circ\text{C}$ when $R = Sm$.

Improved magnetic properties by treatment of iron-based ...

This Special Issue will focus on developments for synthesis, and correlation between microstructure and magnetic properties of intermetallic compounds. More than 10 years ago, a top-down and/or bottom-up approach for the production of nanocomposite magnets was commenced, which is still being developed today.

Special Issue "Synthesis, Microstructure and Magnetic ...

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Intermetallic Compounds, Magnetic, Electrical and Optical Properties and Applications of J. H. Westbrook, R. L. Fleischer This volume is one of four, each of which consists of reprinted chapters from the highly acclaimed, comprehensive two-volume set Intermetallic Compounds: Principles and Practice. published in 1995.

Intermetallic Compounds, Magnetic, Electrical and Optical ...

4. Magnetic and MCE properties of RE₂T₂X compounds 4.1. RE₂Cu₂X (X = Cd and In) compounds 4.1.1. RE₂Cu₂Cd (RE = Gd, Dy, Ho, Er and Tm) compounds. Due to the low boiling temperature (Cd), the Cd-based intermetallic compounds would evaporate if Cd is arc melted with RE metals, and thus

Review of the structural, magnetic and magnetocaloric ...

All compounds display a linear decrease of the unit cell volume versus Er

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concentration; the hydrides have a 0.8% larger cell volume compared to the deuterides with same Er content. They are ferrimagnetic at low field and temperature with a compensation point at $x = 0.33$ for the intermetallics and $x = 0.57$ for the hydrides and deuterides.

Origin of the metamagnetic transitions in $Y_{1-x}Er_xFe_2(H,D)_4$...

The magnetic properties of some of the intermetallic compounds R_2Pt have been studied by means of susceptibility measurements. The compounds are probably ferrimagnetic or they possess some noncollinear structure. With the exception of Gd_2Pt two magnetic transitions with temperature are observed. At 4.2 K the magnetization of Tb_2Pt shows appreciable hysteresis.

Magnetic susceptibility measurements for some of the ...

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Magnetic, Electrical and Optical

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**Intermetallic Compounds, Volume 1,
Crystal Structures of ...**

Vol. 4, no. 6, eaat0761 DOI:

10.1126/sciadv.aat0761 ... Our method offers the possibility to synthesize this and related intermetallic compounds, ... 50 mm) equipped with a Teflon-coated oval magnetic stirring bar (8 mm × 5 mm) and a plastic screw cap was charged with 1,2,3,4-tetrahydroquinoline (63 μ l, 0.5 mmol, ...

**Intermetallic nickel silicide
nanocatalyst—A non-noble ...**

The other titles in this four-volume set are: Crystal Structures of Intermetallic Compounds Structural Applications of Intermetallic Compounds Magnetic, Electrical and Optical Properties and Applications of Intermetallic Compounds. Enter your mobile number or email address below and we'll send you a link

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