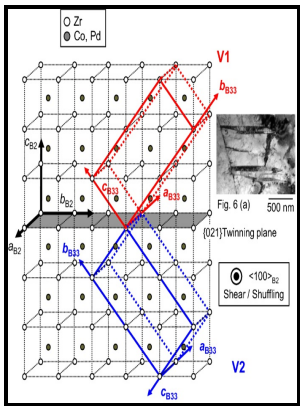
Structure and constitution of some ZrCo and Zr-Co-Ni alloys.

(n.pub.) - Magnetic susceptibility and atomic structure of paramagnetic Zr



Description: -
-structure and constitution of some ZrCo and Zr-Co-Ni alloys.
-structure and constitution of some ZrCo and Zr-Co-Ni alloys.
Notes: Thesis (Ph.D.)- University of Birmingham Dept. of Physical Metallurgy and Science of Materials, 1972.
This edition was published in 1972

Tags: #A #study #of #ZrCo #and #related #ternary #phases #represented #by #the #general #formula, #Zr50Co50 #– #xNix

Structural Phase Transformations in Zr50Co25Ni25 Alloy

Microstructural investigation of cast Nd-Fe-B materials Yin XJ, Jones IP, Harris IR. A midrib-like contrast is observed at the center of the lenticular martensite variant, and it is found to be a 021 B33 twin.

Deformation structure in ductile B2

Journal of Magnetism and Magnetic Materials 1993;125:91-102 The microstructural characterization of Nd-Fe-B alloys. It is likely that the plastic deformation mainly proceeds in the untransformed B2 parent phase because this martensite is harder than the B2 parent phase. There are many {021}B33 deformation twins in the B2 parent phase just….

Effect of catalytic Ni coating with different depositing time on the hydrogen storage properties of ZrCo alloy

The study of cast alloys confirmed that the phase based on Zr 3Co η compound formed by peritectoid reaction. The improved hydrogen absorption kinetic property of Ni coated alloys is attributed to the catalyst effect of Ni which facilitates hydrogen to dissociate on alloy surface in the initial incubation. It is likely that the plastic deformation mainly proceeds in the untransformed B2 parent phase because this martensite is harder than the B2 parent phase.

A study of ZrCo and related ternary phases represented by the general formula, Zr50Co50 − xNix

Parida, Renu Agarwal, and S. Two vertical sections were constructed using data on phase equilibria in the Zr—Co and Zr—Ni boundary binary systems and data on equilibria on the solidus surface and at 900 and 800°C in the Zr—ZrCo—ZrNi ternary system.

Magnetic susceptibility and atomic structure of paramagnetic Zr

Data on the interaction of individual alloys in the system with hydrogen were obtained. At certain temperatures, appreciable ductility is observed in the range 6—14% Ni and the marked temperature dependence of the mechanical properties is thought to be related to the transformation

characteristics of the ternary alloys.

Deformation structure in ductile B2

In Zr 50Co 39Ni 11 alloy deformed at room temperature, lenticular martensite is observed in the B2 parent phase immediately after yielding, in addition to dislocations with the B2-type Burgers vector. The orientation relationship between the B2 parent phase and B33 martensite…. Metallographic examination of the binary ZrCo phase indicates that it melts congruently and there is also evidence of a Widmanstätten-type precipitate and a eutectoid decomposition in the ZrCo phase after certain mechanical and heat treatments.

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