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## Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors: Proceedings of the NATO Advanced Research Workshop on Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors, Budmerice, Slovak Republic, from 9.

By -

Springer. Paperback. Book Condition: New. Paperback. 456 pages. Dimensions: 9.4in. x 5.8in. x 1.0in. Metallic (magnetic and non-magnetic) nanocrystalline materials have been known for over ten years but only recent developments in the research into those complex alloys and their metastable amorphous precursors have created a need to summarize the most important accomplishments in the field. This book is a collection of articles on various aspects of metallic nanocrystalline materials, and an attempt to address this above need. The main focus of the papers is put on the new issues that emerge in the studies of nanocrystalline materials, and, in particular, on (i) new compositions of the alloys, (ii) properties of conventional nanocrystalline materials, (iii) modeling and simulations, (iv) preparation methods, (v) experimental techniques of measurements, and (vi) different modern applications. Interesting phenomena of the physics of nanocrystalline materials are a consequence of the effects induced by the nanocrystalline structure. They include interface physics, the influence of the grain boundaries, the averaging of magnetic anisotropy by exchange interactions.

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