

micromagnetism and the microstructure pdf

MICROMAGNETISM AND THE MICROSTRUCTURE OF FERROMAGNETIC SOLIDS HELMUT KRONMULLER ... 9 Microstructure and domain patterns 225 9.1 Origin of domain patterns 225 ... 13 Computational micromagnetism of thin platelets and small particles 356 13.1 Introduction 356

MICROMAGNETISM AND THE MICROSTRUCTURE OF FERROMAGNETIC SOLIDS

Micromagnetism has become an indispensable theory for a fundamental understanding of magnetic domain configurations, magnetization processes and the interaction between magnetization and ...

Micromagnetism and the Microstructure of Ferromagnetic

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Micromagnetism And The Microstructure Of Ferromagnetic

M.I.-I ~ Journal of "~- magnetism and magnetic materials ELSEVIER Journal of Magnetism and Magnetic Materials 175 (1997) 177 192 Micromagnetism and the microstructure in nanocrystalline materials H. Kronmüller*, R. Fischer, R. Hertel, T. Leineweber Institut für Physik, Max-Planck-Institut für Metallforschung, Pf 800665, Heisenbergstr. 1, D-70569 Stuttgart, Germany Abstract Micromagnetic ...

Micromagnetism and the microstructure in nanocrystalline

Micromagnetic calculations using computational techniques are a pre-requisite to treat complex magnetization processes in ensembles of ferromagnetic grains.

Micromagnetism and the microstructure in nanocrystalline

This complex temperature behavior is also reflected in characteristic changes of the angular dependence of the coercivity and can be described quantitatively on the basis of micromagnetism.

Micromagnetism and the microstructure of high-temperature

The main theme of this book is micromagnetism and microstructure as well as the analysis of the relations between characteristic properties of the hysteresis loop and microstructure.

Micromagnetism and the microstructure of ferromagnetic

The large coercive fields of the 2:17 based magnets at room temperature are generally attributed to the pinning of domain walls by the cell walls of the prismatic cellular microstructure shown in Fig. 3.

Micromagnetism and the microstructure of high-temperature

As shown in Fig. 1 the development of magnetic materials requires besides the theoretical background the combination of three different fields of research: i) Materials synthesis and analysis of alloys, ii) Microstructural characterization of alloys, iii) Magnetic properties and microstructure relations.

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