

Amorphous and Nanocrystalline Soft Magnetic Materials

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The talk surveys amorphous and nanocrystalline materials for soft magnetic applications and the key factors from which their magnetic properties derive. Both types of materials have much in common starting from the way of production as a thin ribbon by rapid solidification and ranging over to the mechanisms that determine their soft magnetic properties. Thus, their structural correlation length is much smaller than the domain wall width resulting in a negligibly small magneto-crystalline anisotropy. A particular focus will be put on annealing induced anisotropies which provide the clue to adjust the magnetic properties to the needs of application.



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