



Properties of Mesoscopic-Scale Thick Ferromagnetic Thin Films

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Message from the Guest Editor

Ferromagnetic thin films are currently used in the device systems of many application fields. Although their behavior can basically be ascribed to their specific electronic configurations, the role of morphology in the manifestation of their properties deserves much more attention once their structure and composition are controlled. That recommendation seems particularly crucial nowadays due to the use of nano-films and nanostructured samples. The film's morphology is induced by its growth process, which simultaneously impacts its inseparable bulk and surface parts. From a practical viewpoint, the bulk and surface parts correspond to the film's thickness and surface roughness (rms), respectively, which are differently impacted by a constant magnetic field effect due to their specific individual microstructures. All of the resulting film's magnetic properties are then a combined contribution of these two sample characteristics.

