



Functional Nanostructures Fabricated by Focused Electron/Ion Beam Induced Deposition

By Rosa Cordoba Castillo

Springer International Publishing AG. Hardback. Condition: new. BRAND NEW, Functional Nanostructures Fabricated by Focused Electron/Ion Beam Induced Deposition, Rosa Cordoba Castillo, This thesis constitutes a detailed study of functional nanostructures (ferromagnetic, superconducting, metallic and semiconducting) fabricated by focused electron/ion beam induced deposition techniques. The nanostructures were grown using different precursor materials such as $\text{Co}_2(\text{CO})_8$, $\text{Fe}_2(\text{CO})_9$, $\text{W}(\text{CO})_6$, $(\text{CH}_3)_3\text{Pt}(\text{CpCH}_3)$ and were characterized by a wide range of techniques. This work reports results obtained for the morphology, the microstructure, the composition, the electrical transport mechanism, magnetic and superconducting properties of nanostructures. The results offers exciting prospects in a wide range of applications in nanotechnology and condensed matter physics.

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