



# **Studies of Nanoconstrictions, Nanowires and Fe<sub>3</sub>O<sub>4</sub> Thin Films: Electrical Conduction and Magnetic Properties. Fabrication by Focused Electron/Ion Beam (Springer Theses)**

*Amalio Fernandez-Pacheco*

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This work constitutes a detailed study of electrical and magnetic properties in nanometric materials with a range of scales: atomic-sized nanoconstrictions, micro- and nanowires and thin films. Firstly, a novel method of fabricating atomic-sized constrictions in metals is presented; it relies on measuring the conduction of the device while a focused-ion-beam etching process is in progress.

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