



**Magnetic Nano- and Microwires: Design,  
Synthesis, Properties and Applications (Woodhead  
Publishing Series in Electronic and Optical  
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# Magnetic Nano- and Microwires: Design, Synthesis, Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials)

## Magnetic Nano- and Microwires: Design, Synthesis, Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials)

Magnetic nanowires and microwires are key tools in the development of enhanced devices for information technology (memory and data processing) and sensing. Offering the combined characteristics of high density, high speed, and non-volatility, they facilitate reliable control of the motion of magnetic domain walls; a key requirement for the development of novel classes of logic and storage devices.

Part One introduces the design and synthesis of magnetic nanowires and microwires, reviewing the growth and processing of nanowires and nanowire heterostructures using such methods as sol-gel and electrodeposition combinations, focused-electron/ion-beam-induced deposition, chemical vapour transport, quenching and drawing and magnetic interactions. Magnetic and transport properties, alongside domain walls, in nano- and microwires are then explored in Part Two, before Part Three goes on to explore a wide range of applications for magnetic nano- and microwire devices, including memory, microwave and electrochemical applications, in addition to thermal spin polarization and configuration, magnetocaloric effects and Bloch point dynamics.

- Detailed coverage of multiple key techniques for the growth and processing of nanowires and microwires
- Reviews the principles and difficulties involved in applying magnetic nano- and microwires to a wide range of applications
- Combines the expertise of specialists from around the globe to give a broad overview of current and future trends

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