



Spintronics for Next Generation Innovative Devices (Wiley Series in Materials for Electronic & Optoelectronic Applications)

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Spintronics (short for spin electronics, or spin transport electronics) exploits both the intrinsic spin of the electron and its associated magnetic moment, in addition to its fundamental electronic charge, in solid-state devices. Controlling the spin of electrons within a device can produce surprising and substantial changes in its properties.

Drawing from many cutting edge fields, including physics, materials science, and electronics device technology, spintronics has provided the key concepts for many next generation information processing and transmitting technologies. This book discusses all aspects of spintronics from basic science to applications and covers:

- magnetic semiconductors
- topological insulators
- spin current science
- spin caloritronics
- ultrafast magnetization reversal
- magneto-resistance effects and devices
- spin transistors
- quantum information devices

This book provides a comprehensive introduction to Spintronics for researchers and students in academia and industry.



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