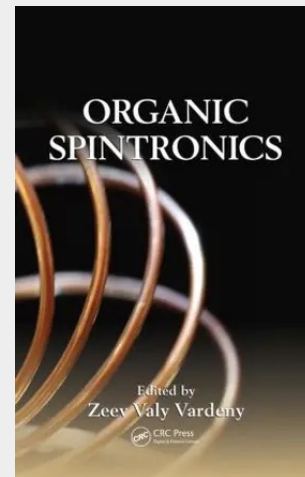


## Organic Spintronics

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Present worldwide funding in organic electronics is poised to stimulate major research and development efforts in organic materials research for lighting, photovoltaic, and other optoelectronic applications. The field of organic spintronics, in particular, has flourished in the area of organic magneto-transport. Reflecting the main avenues of substantial advances in this arena, Organic Spintronics is an up-to-date summary of the experimental and theoretical aspects of the field. With contributions by a panel of international experts on the cutting edge of research, this volume explores: - Spin injection and manipulation in organic spin valves - The magnetic field effect in organic light-emitting diodes (OLEDs) - The spin transport effect in relation to spin manipulation - Organic magnets as spin injection electrodes in organic spintronics devices - The coherent control of spins in organic devices using the technique of electronically detected magnetic resonance - The possibility of using organic spin valves as sensors

Balancing practical experimentation with analytical constructs, the book covers both the theoretical aspects of spin injection, transport, and detection in organic spin valves as well as the underlying mechanism of the magnetoresistance and magneto-electroluminescence in OLEDs. The first book of its kind on this specialized area, this volume is destined to provide researchers and students with the impetus to develop new channels of inquiry in an area that has almost limitless potential.



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