

SPIN-POLARIZED ELECTRONS
IN THE ELECTRONICS OF THE FUTURE
(A review)

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S u m m a r y

An attempt to analyze experimental and theoretical achievements in a new area of science, spintronics, has been made. Such issues as the optical alignment of spins, spin relaxation, the Hanle effect, the phenomena of giant and tunnel magnetoresistance, the spin injection problem, spin-polarized transport, devices on the basis of spin-polarized electrons, the basics of quantum computers, and perspective materials for spintronics have been considered.