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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction to spintronic and nanomagnetic computing devices -- Potential applications of all electric spin valves made of asymmetrically biased quantum point contacts -- Spin-transistor technology for spintronics/CMOS hybrid logic circuits and systems -- Spin transfer torque : a multiscale picture -- Magnetic tunnel junction based and integrated logic and computation -- Magnetization switching and domain wall motion due to spin orbit torque -- Magnonic logic devices -- Strain mediated magnetoelectric memory -- Hybrid spintronics-straintronics -- Unconventional nanocomputing with physical wave interference functions.