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Our research into magnetic thin films is primarily
focused on the growth and properties of such
structures on Si to develop the magnetic sensors for
field sensing applications. Thin films of permalloy
(Ni 81 Fe 19) were deposited on silicon substrates
using Ultra High vacuum (UHV) sputtering system
(5 x 10-9 mbar). To achieve the negligible
hysteresis and high thermal stability of these films,
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1988 — European scientists (Albert Fert and Peter Gr nberg)
discovered the "giant magnetoresistive effect" in thin-film structures.
1989 — Pohm and Daughton left Honeywell to form Nonvolatile
Electronics, Inc. (later renamed to NVE Corp.) sublicensing the
MRAM technology they have created.

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review of thin film magnetoresistive (MR) sensors, including the
theory of MR effects as well as the design, fabrication, properties,
and applications of MR sensors. With over 1,000 references, the
book fully reviews the theory, development, and use of these
sensors. It provides essential
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Allen Clothier. Abstract.

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properties and applications of mr sensors with over 1000
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Thin films of permalloy (Ni81Fe19) were deposited on
silicon substrates using Ultra High vacuum
(UHV)sputtering system (~ 5 x 10-9 mbar). To achieve
the negligible hysteresis and high thermal stability of these
films, the magnetic and structural properties were
optimized by (1) varying thicknesses of magnetic films,
and (2) post annealing at various temperatures.
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book fully reviews the theory development and use of
these sensors it provides essential information about the
performance of various thin film magnetoresistive sensors
presents a comprehensive review of thin film
magnetoresistive mr sensors including the theory of mr
effects as well as the design fabrication properties these
sensors utilize the magnetoresistive effect via a thin film
and this enables measurements to be taken without the
need for physical contact in this article we look at ...
Development of magnetoresistive thin film sensor for ...
Development of magnetoresistive thin film sensor for magnetic field
sensing applications P. Chowdhury1* 1Surface Engineering
Division, National Aerospace Laboratories, Bengaluru-560017
*pchowdhury@nal.res.in Abstract. Recently, nano-dimensional
magnetic thin film and multilayer structures have attracted a great
deal of interest
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magnetoresistive mr sensors including the theory of mr effects
as well as the design fabrication properties these sensors
utilize the magnetoresistive effect via a thin film and this
enables measurements to be taken without the need for
physical contact in this article we look at these sensors as well
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effect was discovered 150 years ago however its use in sensor
applications was first made practically possible through the
development of thin film technology some 30 years ago thin film
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