

GIANT MAGNETO RESISTANCE DEVICES%0A

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[Giant magnetoresistance - Wikipedia](#)

Giant magnetoresistance (GMR) is a quantum mechanical magnetoresistance effect observed in multilayers composed of alternating ferromagnetic and non-magnetic conductive layers. The 2007 Nobel Prize in Physics was awarded to Albert Fert and Peter Gr nberg for the discovery of GMR.

[Giant Magneto-Resistance Devices: E. Hirota, H. Sakakima ...](#)

This book deals with the application of giant magnetoresistance (GMR) effects to electronic devices. It will appeal to engineers and graduate students in the fields of electronic devices and materials. The main subjects are magnetic sensors with high resolution and magnetic read heads with high sensitivity, required for hard-disk drives with recording densities of several gigabytes. Another [Giant Magnetoresistance - Physics Central](#)

If the spin and magnetic field are anti-parallel, more states are available for electron scattering, so the electrical resistance is larger than if the spin and the magnetic field are parallel (see diagram). This is the basic idea of spin-dependent scattering--Fert made many important discoveries in this area.

[Giant Magnetoresistance - The Budker Group](#) resistance at the nanoscale using magnetic field Nonmagnetic metal sandwiched between magnetic layers Apply magnetic field parallel magnetization decreased resistance Figure 1. Fundamentals of GMR. Matthew Melissa Physics 141A Spring 2013 3 Nobel Prize in Physics (2007) Awarded jointly to Albert Fert and Peter Gr nberg Discovered independently in 1988

A brief introduction to giant magnetoresistance - arXiv the power of the Giant Magneto resistive effect [1-3]. Like other magnetoresistive effects, GMR is the change in electrical resistance in response to an applied magnetic field.

[Giant Magneto-Resistance Devices: E. Hirota, H. Sakakima ...](#)

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[Giant Magnetoresistance - an overview | ScienceDirect Topics](#)

The term giant magnetoresistance was first used for the large resistance decrease in magnetic multilayers (MML) associated with the field-induced change of interlayer coupling from AF to ferromagnetic (Baibich et al., 1988).

Size-dependent giant-magnetoresistance in millimeter scale ...

Large changes in the electrical resistance induced by the application of a small magnetic field are potentially useful for device-applications. Such Giant Magneto-Resistance (GMR) effects also

Giant magnetoresistance - Scholarpedia

The Giant Magnetoresistance (GMR) is the large change in the electrical resistance which is induced by the application of a magnetic field to thin films composed of alternating ferromagnetic and nonmagnetic layers.

Giant Magneto-Resistance Devices | E. Hirota |

Springer

This book deals with the application of giant magneto-resistance (GMR) effects to electronic devices. It will appeal to engineers and graduate students in the fields of electronic devices and materials.

Giant Magnetoresistance: Basic Concepts, Microstructure ...

The giant magnetoresistance effect is the change of electric conductivity in a system of metallic layers when an external magnetic field changes the magnetization of the ferromagnetic layers relative to each other.

Giant magneto-resistance devices (Book, 2002)

[WorldCat.org]

This book deals with the application of giant magneto-resistance (GMR) effects to electronic devices. It will appeal to engineers and graduate students in the fields of electronic devices and materials.

Giant Magnetoresistance and Spintronics - folk.uio.no

Giant magnetoresistance 2 Magnetoresistance (MR) is the change of resistance of a conductor in an external magnetic field. In typical metal, at room temperature, orbital MR effects are very

Giant MagnetoResistance Devices - researchgate.net

1 Introduction.- 2 Physics of GMR and TMR Devices.- 3 GMR Devices of Metallic Multilayers.- 4 Spin-Valve Devices.- 5 Tunnel-Type GMR (TMR) Devices.- 6 Magnetic Random Access Memory (MRAM).- 7