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Advanced Materials - Lecture 2.9 - Magnetoresistance

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Spintronics Fundamentals And Applications *Spintronics-The Technology Revolution You've Probably Never Heard Of The Spintronics Revolution The Spin on Electronics! Spintronics: The Nanoscience and Nanotech of Spin Currents / Stuart Parkin Fe-based n-type ferromagnetic semiconductor*

Advanced Materials - Lecture 2.7 - Spin Transfer Torque (STT) and spin pumping

Spintronics and Nanoscale Magnetism *Center for Spintronics Materials, Interfaces, and Novel Architectures (C-SPIN) Nanomagnetism And Spintronics Fabrication Materials*

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Spintronics manipulates individual magnetic moments to integrate logic functions and non-volatile information storage on the same platform. As is often the case in condensed matter science, advances are made through the synthesis and fabrication of novel materials and high quality new physics materials. Giant magnetoresistance and dilute magnetic semiconductors are two such examples.

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Nanomagnetism and Spintronics - Fabrication, Materials, Characterization and Applications. Details. After a brief introduction to concepts in nanomagnetism and spintronics, the text reviews recent techniques and their achievements in the synthesis and fabrication of magnetic nanostructures. The methods presented here emphasize bottom up or top down approaches for nanodots, nanowires and thin films.

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This chapter introduces a book that focuses on nanomagnetism and spintronics, and presents an overview of the subjects covered in the book. The discovery of giant magnetoresistance (GMR) effect is described together with a brief survey of the studies prior to the discovery of GMR. ... It considers soft magnetic materials only, where domain-wall ...