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concentrate on: spin dynamics and spin transport in magnetic and non-magnetic structures, spin-orbit interaction in two-dimensional systems and graphene, and new mathematical method used in the condensed matter physics. Sample Chapter(s) Chapter 1: Lectures on Non-Abelian Bosonization (275 KB) Contents:

Symmetry, Spin

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Dynamics and the Properties of Nanostructures

Recently Hatami et al. (2007) predicted a strong coupling of thermoelectric spin and charge transport with the magnetization dynamics in nanoscale magnetic structures. The thermal spin-transfer torque is believed large enough to realize a magnetization reversal by pure heat currents.

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7. Outlook. The
dynamics of magnetic
nanostructures in the
...
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Chapter Two **Magnetic** **Nanostructures:** **Currents and** **Dynamics ...**

The elementary
physical mechanisms
involving the spin
dynamics when
exciting magnetic
nanostructures with
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pulses are considered.

The variety of experimental methods and theoretical approaches used to study the magnetic properties of the materials on a broad range of temporal and spatial scales are examined.

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This new trend also got transferred into the spin and magnetization dynamics in the magnetic materials, particularly to cater the need to understand the fast dynamics in magnetic storage and memory units as well as for the understanding of the fundamental magnetic properties at the extreme time scale.

Time-Domain Study

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of Magnetization Dynamics in Magnetic ...

Scanning tunneling microscopy is a powerful tool for studying the electronic and magnetic properties of magnetic nanostructures on surfaces. Over the last decade, inelastic tunneling spectroscopy has been used to probe discrete energy levels of quantum spin systems. These states

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can often be described as solutions of simple spin Hamiltonians. In spin excitation spectroscopy, a spin system is ...

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spin-flop scattering on out-of-equilibrium spin dynamics in F/N based magnetic nanostructures. 2. Spin-Dependent Interface Scattering-Induced

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Torques in Magnetic
Multilayer

Nanostructures 2.1.

Features of Spin

Transfer Effect In this

section, a simple

intuitive picture of the

physics behind the spin-

transfer effect is

considered. The

connection

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this the spin current flows from the magnetic layer into the substrate, and, as a result of the inverse spin Hall effect, is converted into a charge current, which can easily be ...

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ISBN: 9783642320415

3642320414: OCLC

Number: 816494953:

Description: xv, 268
pages : illustrations ;
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