

# **Semiconductor Spintronics And Quantum Computation**

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NanoScience and Technology Semiconductor Spintronics and Quantum Computation von D.D  
Awschalom, D Loss, N Samarth 1. Auflage Springer-Verlag Berlin Heidelberg 2002

### **Ibm100 - the application of spintronics**

important in facilitating the development of the first quantum computer. be stored in semiconductors,  
CENTER FOR SPINTRONICS AND QUANTUM COMPUTATION

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leading to spin lifetimes of milliseconds in semiconductor quantum dots at low temperatures. Optical  
computing; Quantum computing; Quantum cryptography; RFID.

### **Spintronics - asdn**

There are many schemes proposed for quantum computing This web page is an excerpt from the chapter  
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offers several potential approaches towards solid-state quantum computation. spins embedded in  
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that rely on the electronic and photonic manipulation of quantum information in semiconductors. for  
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## **Quantum spintronics: engineering and manipulating**

Quantum spintronics: engineering and manipulating atom Center for Spintronics and Quantum Computation, charges and spins in semiconductors. Quantum control

## **Citeulike: semiconductor spintronics and quantum**

D. Awschalom, D. Loss, N. Samarth. (09 August 2002). {The manipulation of electric charge in bulk semiconductors and their heterostructures is the basis of nearly all

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The use of spin in electronic circuitry is a tantalizing method to increase computer performance. Semiconductor Spintronics and Quantum computation.

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Welcome. Welcome to the The main research focus in our lab is the optical investigation of semiconductors and various semiconductor Spintronics/Quantum Computing.

## **Physics - trend: spintronics without magnetism**

important advances have been made in semiconductor spintronics by using these Semiconductor Spintronics and Quantum Computation, edited by D. D

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## **Semiconductors: applications in spintronics and**

1 Tatiana G. Rappoport Advanced Summer School Cinvestav 2005 Semiconductors: Applications in spintronics and quantum computation

## **Semiconductors: nanostructures and applications**

In this serie of lectures we present some of the basic issues in semiconductor spintronics at an and its applications in quantum computation. Abstract Text:

## **Quantum spintronics: engineering and manipulating**

1 Center for Spintronics and Quantum Computation, University of California isolating and controlling quantum coherence using charges and spins in semiconductors.

## **9783540421764 - semiconductor spintronics and**

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