

Control of Magnetotransport in Quantum Billiards

Filesize: 9.62 MB

Reviews

This ebook might be worth a read, and superior to other. It is probably the most remarkable book i have got read. Its been designed in an remarkably straightforward way and it is merely soon after i finished reading this publication where really modified me, alter the way i really believe. (Alex Zieme DDS)

DISCLAIMER | DMCA

CONTROL OF MAGNETOTRANSPORT IN QUANTUM BILLIARDS



Springer-Verlag Gmbh Nov 2016, 2016. Taschenbuch. Condition: Neu. Neuware - In this book the coherent quantum transport of electrons through two-dimensional mesoscopic structures is explored in dependence of the interplay between the confining geometry and the impact of applied magnetic fields, aiming at conductance controllability. After a top-down, insightful presentation of the elements of mesoscopic devices and transport theory, a computational technique which treats multiterminal structures of arbitrary geometry and topology is developed. The method relies on the modular assembly of the electronic propagators of subsystems which are inter- or intra-connected providing large flexibility in system setups combined with high computational efficiency. Conductance control is first demonstrated for elongated quantum billiards and arrays thereof where a weak magnetic field tunes the current by phase modulation of interfering lead-coupled states geometrically separated from confined states. Soft-wall potentials are then employed for efficient and robust conductance switching by isolating energy persistent, collimated or magnetically deflected electron paths from Fano resonances. In a multiterminal configuration, the guiding and focusing property of curved boundary sections enables magnetically controlled directional transport with input electron waves flowing exclusively to selected outputs. Together with a comprehensive analysis of characteristic transport features and spatial distributions of scattering states, the results demonstrate the geometrically assisted design of magnetoconductance control elements in the linear response regime. 252 pp. Englisch.

Read Control of Magnetotransport in Quantum Billiards Online
Download PDF Control of Magnetotransport in Quantum Billiards

See Also

\rightarrow

New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond

Paperback. Book Condition: New. Not Signed; This is Book 2 of CGP's SAT Buster 10-Minute Tests for KS2 Grammar, Punctuation & Spelling - it's a brilliant way to introduce English SATS preparation in bite-sized chunks.... Download Document »

\rightarrow

New KS2 English SAT Buster 10-Minute Tests: Grammar, Punctuation & Spelling (2016 SATs & Beyond) Coordination Group Publications Ltd (CGP). Paperback. Book Condition: new. BRAND NEW, New KS2 English SAT Buster 10-Minute Tests: Grammar, Punctuation & Spelling (2016 SATs & Beyond), CGP Books, CGP Books, This book of SAT Buster... Download Document »

\rightarrow

Kid Toc: Where Learning from Kids Is Fun!

Createspace, United States, 2012. Paperback. Book Condition: New. Hanne Simone Larsen (illustrator). 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****. Where learning to read from kids is fun!... Download Document »

\rightarrow	

Where Is My Mommy?: Children s Book

Createspace, United States, 2013. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****. This children s book is wonderfully illustrated. It has an awesome plot to... Download Document »

\sim	

What is in My Net? (Pink B) NF

Pearson Education Limited. Book Condition: New. This title is part of Pearson's Bug Club - the first whole-school reading programme that joins books and an online reading world to teach today's children to read. In...

Download Document »

	Social Justice Instruction: Empowerment on the Chalkboard: 2016 Springer International Publishing AG. Hardback. Book Condition: new. BRAND NEW, Social Justice Instruction: Empowerment on the Chalkboard: 2016, Rosemary Papa, Danielle M. Eadens, Daniel W. Eadens, This resource offers instructors a full palette of strategies Save Document »
	My Baby Brother Is a Little Monster by Sarah Albee 2007 Paperback Book Condition: Brand New. Book Condition: Brand New. Save Document »
Ξ	Ready, Set, Preschool! : Stories, Poems and Picture Games with an Educational Guide for Parents Book Condition: Brand New. Book Condition: Brand New. Save Document »
	There Is Light in You Changing Minds Online, LLC, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.There is Light in You is a collection of bedtime Save Document »
Ξ	Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselues By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625) Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English Brand New Book

***** Print on Demand *****.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you

Save Document »