

THUMBNAIL
NOT
AVAILABLE



DOWNLOAD PDF

Charge-Carrier Transport Measurements through Single Molecules

By Emanuel Lörtscher

Cuvillier Verlag Okt 2007, 2007. Taschenbuch. Book Condition: Neu. 210x147x14 mm. Neuware - The goal of this thesis was to establish and to characterize single-molecule junctions by means of the mechanically controllable break-junction (MCBJ) technique. Using this method, an electrode pair with atomic-sized tips can be created. These tips are located exactly opposite to each other and their distance can be adjusted with picometer accuracy. This technique was developed by Moreland et al. in 1985 and further improved by Muller et al. in the subsequent years to study quantum phenomena in superconductors. Mechanically controllable break-junctions are distinguished by an excellent stability of the two electrodes against external vibrations. The stability is achieved by a purely mechanical transaction in a three-point bending mechanism with a very low transmission ratio between the pushing-rod travel distance, and the electrode separation resulting there from (ratio of approximately 1×10^{-5}). This lateral stability combined with a sub-atomic spatial electrode positioning accuracy allows single molecules to be contacted. In the framework of this thesis, an ultra-high vacuum system equipped with a MCBJ bending mechanism was designed, fabricated, characterized, and continuously improved. This experimental system can be used to establish a contact with a single molecule...



READ ONLINE
[1.83 MB]

Reviews

Comprehensive information for book fanatics. it had been writtern really completely and useful. I am happy to explain how this is the greatest publication i have read through in my very own life and can be he finest pdf for ever.

-- **Virginie Collier I**

Comprehensive guide for ebook fanatics. I have read and i am certain that i am going to planning to read through yet again once again in the future. Your lifestyle period will likely be change once you full looking over this ebook.

-- **Jakob Davis**

Other Kindle Books



[Psychologisches Testverfahren](#)

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...



[Programming in D](#)

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...



[Read Write Inc. Phonics: Green Set 1 Storybook 10 Stitch the Witch \(Paperback\)](#)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 178 x 148 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read Write Inc. Set 1 sounds. Each set...



[Read Write Inc. Phonics: Green Set 1 Non-Fiction 5 Camping \(Paperback\)](#)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 210 x 108 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books is carefully levelled to match childrens growing...



[The Java Tutorial \(3rd Edition\)](#)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book stands above the rest because it has..."



[Fox All Week: Level 3 \(Paperback\)](#)

Penguin Putnam Inc, United States, 2004. Paperback. Book Condition: New. James Marshall (illustrator). Puffin Easy-To-Read ed.. 224 x 147 mm. Language: English . Brand New Book. Using their cache of already published easy-to-read books, Puffin launched their Easy-to-Read program. Favorite stories by...