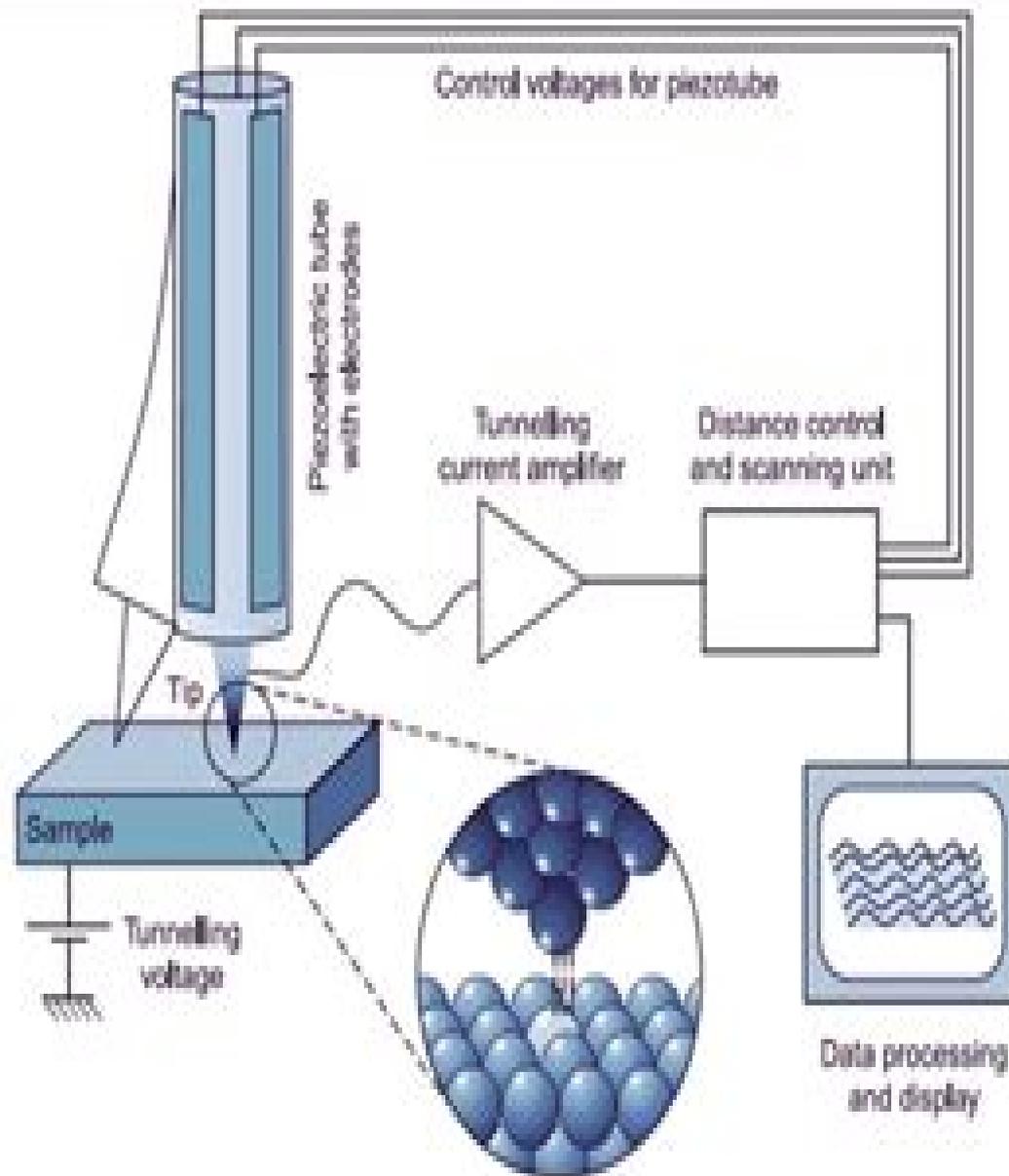


Scanning Tunneling Microscope



A Low Temperature Scanning Tunneling Microscopy System For

Torge Mashoff



A Low Temperature Scanning Tunneling Microscopy System For:

Implementation of a Navigation System Into a Low-temperature Scanning Tunneling Microscope Timo Kandra,2023 **Design of a Low-temperature Scanning Tunneling Microscope System Used to Examine Graphene Nanomembranes** Torge Mashoff,2010 Low Temperature Scanning Tunneling Spectroscopy Michael Dominic Kirk,1989
○○○○○○○○○○○○○○○○○○○○,1976 *Scanning Tunneling Microscopy of Complex Electronic Materials* Aleksandra T. Tomic,2008 **Low Temperature Scanning Tunneling Microscopy on Mesoscopic Systems** Jeroen Walter Gerard Wildöer,1996 Zsfassung in niederl nd Sprache Scientific and Technical Aerospace Reports ,1995 **Low Temperature Scanning Tunneling Microscopy Studies of Surfaces and Molecules** Lisa Marie Wesoloski,2006 Nanotechnology is described as an emerging science discipline that is expected to have a greater impact on life as we know it than any innovation since the industrial revolution Superior cheaper stronger and more efficient products are predicted to change the way we live use technology and conduct research This dissertation focuses on a remarkable instrument the low temperature scanning tunneling microscope LT STM which is a powerful tool that has played a significant role in revolutionizing the fields of nanoscience and nanotechnology The work in this dissertation is divided into three sections First the fundamental principles of nanoscience and the history of microscopy are introduced The second part provides a thorough study of Bardeen s formula and its application in STM The third part describes experimental investigations involving the physicochemical properties of matter at the nanoscale conducted by means of LT STM Studies begin with bare substrate surfaces and successively build in complexity as small molecules solvents nanoclusters and large organic molecules are examined on surfaces Experiments show that carbon monoxide exhibits chemical contrast while oxygen shows a lack thereof Solvents are demonstrated to weaken surface bonds and induce surface atom mass transport and the tip is shown to assist the diffusion Manganese nanoclusters are shown to generate a localized electronic state on graphite by either an electronic or magnetic perturbation The aromatic molecule decacyclene DC is shown to exhibit both bias dependent and tip dependent contrast reversal In addition intermolecular interactions are found to compete with the surface to molecule interactions as dimers are observed on the surface Two geometric orientations of the dimers are proposed to explain dimer characteristics and their relation to substrate dependent properties Lastly DC molecules are examined at coverages in excess of a monolayer and shown to form ordered domains of the boat shape conformation This dissertation emphasizes the local modifications of electronic structures upon physisorption and the interplay between surface to molecule and molecule to molecule interactions which demonstrate the various complexities occurring at the nanoscale *Scanning Tunneling Microscope Study of Surface Diffusion and Dislocation Motion in Atomically Flat Gold Films* Jeeseong Hwang,1993 **Scanning Tunneling Microscopy and Field Emission Studies of Carbon Nanostructures** Philip Godfrey Collins,1998 **Direct Imaging of Small Molecules by Cryogenic Scanning Tunneling Microscopy** Xiangxiong Chen,1996 **Investigating**

High-T_c Superconductivity on the Atomic Scale by Scanning Tunneling Microscopy Eric William Hudson, 1999
Construction of a Low Temperature Ultra High Vacuum Scanning Tunneling/atomic Force Microscope Tomoko Shimizu, 2004 *Scanning Tunneling Microscopy/Spectroscopy and Related Techniques* P.M. Koenraad, M. Kemerink, 2003-12-19 At this conference the latest developments in the design construction and application of scanning probe microscopy like Scanning Tunneling Microscopy STM Atomic Force Microscopy AFM Magnetic Force Microscopy MFM Scanning Near Field Optical Microscopy SNOM in the fields of nanotechnology physics chemistry and biology were discussed *High Pressure Scanning Tunneling Microscopy Studies of Adsorbate Structure and Mobility During Catalytic Reactions* David Chi-Wai Tang, 2005 *Monitoring Surface Reactions Using Scanning Tunneling Microscopy* William W. Crew (Jr.), 1995 **Restoration of a Low Temperature Scanning Tunneling Microscope** Baird Bankovic, 2024 Scanning tunneling microscopy is a technique that enables the study of the surfaces of materials with sub nanometer resolution A scanning tunneling microscope STM gives local electronic information about the surface and is an invaluable analysis technique in modern condensed matter physics The goal of my project was to restore an existing low temperature STM which had fallen into disrepair This thesis outlines the restoration process along with a description of the supporting techniques that were necessary In parallel with the restoration process I also developed an automated tungsten tip fabricator for making atomically sharp tips for the STM This is an original design that I have shared on an open source website Additionally I explored the use of a low temperature transimpedance preamplifier that would improve the performance of our STM and tested a number of operational amplifiers that could be used to this end Combined Low-temperature Scanning Tunneling, 2008 The authors present the design and first results of a low temperature ultrahigh vacuum scanning probe microscope enabling atomic resolution imaging in both scanning tunneling microscopy STM and noncontact atomic force microscopy NC AFM modes A tuning fork based sensor provides flexibility in selecting probe tip materials which can be either metallic or nonmetallic When choosing a conducting tip and sample simultaneous STM NC AFM data acquisition is possible Noticeable characteristics that distinguish this setup from similar systems providing simultaneous STM NC AFM capabilities are its combination of relative compactness on top bath cryostat needs no pit in situ exchange of tip and sample at low temperatures short turnaround times modest helium consumption and unrestricted access from dedicated flanges The latter permits not only the optical surveillance of the tip during approach but also the direct deposition of molecules or atoms on either tip or sample while they remain cold Atomic corrugations as low as 1 pm could successfully be resolved In addition lateral drifts rates of below 15 pm/h allow long term data acquisition series and the recording of site specific spectroscopy maps Results obtained on Cu 111 and graphite illustrate the microscope's performance **Design and Construction of a Low Temperature Scanning Tunneling Microscope** Chi Chen, 2010 Near-field Coherent Optical Spectroscopy and Microscopy of a Mesoscopic Quantum System Jeffrey Randall Guest, 2000

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