

Review of Scientific Paper “Contact Electrification Using Force Microscopy”

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Abstract — Charge exchange is a mechanism previously explored and theorized about for thousands of years by macroscopic level observation and instrumentation which has proven insufficient. This paper reviews a technique which approaches the problem using a higher resolution method to track and measure charge states on materials.

Index Terms — Triboelectric, charge microscopy, metal-insulator contact, force microscope

I. BACKGROUND AND INTRODUCTION

The paper “Contact Electrification Using Force Microscopy” describes a new methodology in order to more closely study the process of exactly how charges are exchanged between two different materials that come into physical contact with each other. This property, known as the triboelectric effect, has been observed since the days of a particular Greek scholar known as Thales of Miletus (6th – 7th Century BC) who observed the electrification of materials rubbed with amber. It was he who first coined the word electricity from the Greek work for amber: “elektron”.¹⁰

The types of triboelectrification are broadly divided into the metal on metal, metal on insulator and insulator on insulator. In the work of J.R. Harper during the 1960’s, it was discovered that when two metals touch, the charge is equalized when the Fermi levels of the respective materials match each other.⁹ However in the case where at one or both of the materials is insulating, the process of charge exchange has been controversial.

Some researchers claimed that only the last metal touched determined the net charge on the insulator whereas others apparently observed a cumulative effect with each metal contact. Discerning which theory is correct depends on understanding how the individual charge sites work which has been a problem of area resolution. These experiments were conducted at relatively macroscale (millimeter) regimes which can suffer from net charge inaccuracies. The findings of this

paper have found further information that can only be discerned with measurements on a smaller scale.

The modified force microscope employs a piezo-electrically driven lever on which is mounted a thin nickel wire that has been bent 90 degrees downward to an electrochemically etched tip. The piezo element is driven by an oscillator at just above 2.5 kHz with part of the signal being split into a lock-in amplifier which compares the phase of the signal with that of an optical interferometer sensor that monitors the movement of the lever/tip assembly.

While in operation, the tip is oscillated at just above the resonant frequency (as approaching the surface begins to change the spring constant and dampen the movement) while the AC bias frequency is kept below the tip frequency (to avoid constructive interference in the signal to the Servo Electronics) but above the feedback loop frequency response rate,¹ (probably to avoid creating a false reinforcement in the feedback loop which could cause unpredictable or uncontrollable behavior and oscillation.)

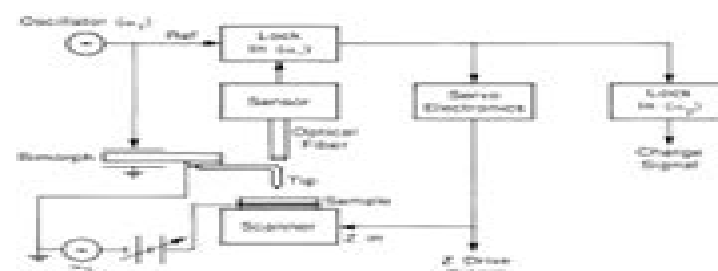


FIG. 1. Block diagram of the force microscope.

FIG. 1. Force Microscope Block Diagram from Reference [1]

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1. Understanding the eBook Example Of Scientific Papers
 - The Rise of Digital Reading Example Of Scientific Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Example Of Scientific Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Example Of Scientific Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Example Of Scientific Papers
 - Personalized Recommendations
 - Example Of Scientific Papers User Reviews and Ratings
 - Example Of Scientific Papers and Bestseller Lists
5. Accessing Example Of Scientific Papers Free and Paid eBooks
 - Example Of Scientific Papers Public Domain eBooks
 - Example Of Scientific Papers eBook Subscription Services
 - Example Of Scientific Papers Budget-Friendly Options
6. Navigating Example Of Scientific Papers eBook Formats

- ePub, PDF, MOBI, and More
- Example Of Scientific Papers Compatibility with Devices
- Example Of Scientific Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Example Of Scientific Papers
 - Highlighting and Note-Taking Example Of Scientific Papers
 - Interactive Elements Example Of Scientific Papers
- 8. Staying Engaged with Example Of Scientific Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Example Of Scientific Papers
- 9. Balancing eBooks and Physical Books Example Of Scientific Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Example Of Scientific Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Example Of Scientific Papers
 - Setting Reading Goals Example Of Scientific Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Example Of Scientific Papers
 - Fact-Checking eBook Content of Example Of Scientific Papers
 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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