

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

1. 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".^{1,2}

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.³ 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.⁴ (probably to avoid creating a false reinforcement in the feedback loop which could cause unpredictable or uncontrollable behavior and oscillation.)

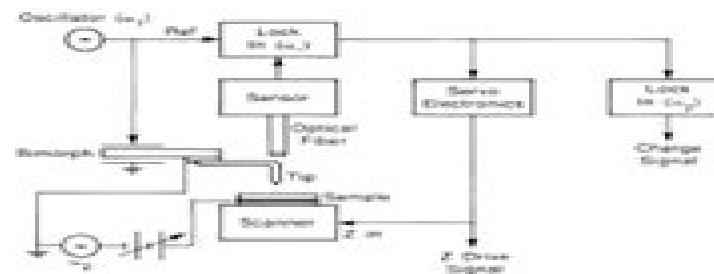


FIG. 1. Block diagram of the force microscope.

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

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Proceedings of the 2024 7th International Conference on Humanities Education and Social Sciences (ICHESS 2024) Feiru Zeng, Asad Khalil, Feng Wu, Jianfei Luo, 2024-12-20 This is an open access book ICHESS started in 2018 the last five sessions of ICHESS have all been successfully published ICHESS is to bring together innovative academics and industrial experts in the field of Humanities Education and Social Sciences to a common forum The 7th International Conference on Humanities Education and Social Sciences ICHESS2024 will be held on October 11 13 2024 in Ningbo China This conference serves as a platform for the exchange of innovative ideas cutting edge research and collaborative initiatives that address the pressing issues faced by our communities today The overarching theme of this year's conference is Bridging Traditions and Innovations which underscores the importance of harmonizing classical perspectives with modern advancements to foster a holistic understanding of human behaviour culture and societal development By facilitating dialogue and connections among diverse fields such as history philosophy sociology education and psychology the conference aims to promote interdisciplinary research and enhance educational practices Ultimately the goal is to inspire actionable insights and foster sustainable solutions that contribute to societal well being and global progress This year's conference distinguishes itself from previous editions by emphasizing a set of unique and timely research themes designed to address the evolving landscapes of humanities and social sciences One of the primary themes is Digital Humanities and Society which explores how digital technologies are transforming historical research cultural preservation and educational methodologies Another significant theme is Social Justice and Equity focusing on contemporary challenges related to race gender class and access to education and fostering discussions on policies and practices that aim to create a more just society Globalization and Cultural Identity is another key theme examining the effects of global interconnectedness on local cultures and identities and how these dynamics shape both individual and collective experiences in diverse societies Additionally Sustainability and Ethics invites scholars to delve into the ethical dimensions of environmental sustainability social responsibility and the role of humanities and social sciences in promoting sustainable development Furthermore this year's conference introduces a theme

on Interdisciplinary Approaches to Crisis Management addressing the critical need for humanities and social sciences perspectives in understanding and managing global crises such as pandemics economic instability and political upheavals By focusing on these distinct research themes the conference aims to not only advance academic discourse but also inspire concrete actions that address the multifaceted challenges of our time **How to Write and Publish a Scientific Paper**

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