

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.)

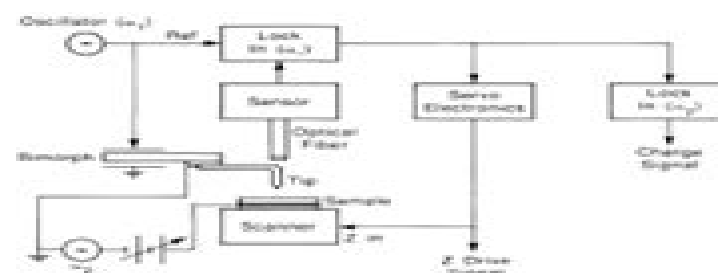


FIG. 1. Block diagram of the force microscope.

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

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opportunity to conduct academic research together with academic staff The introduction of the research based learning concept into the programmes of all Maastricht University's faculties has resulted in a range of RBL models that vary to fit the various disciplines and programmes offered by the faculties The book first presents theoretical models and a description of the concepts of research based learning and undergraduate research UGR Next by means of case studies it describes the formulas developed to suit the various programmes the challenges encountered the initial reservations on the part of the staff the limitations caused by regulations and demands of the curricula as well as the successes and results of the excellence programme The disciplines described in the case studies include psychology and neuroscience knowledge engineering social and cultural sciences law and business and economics **ICHSS 2021** Herman J Waluyo, Sarwiji Suwandi, Heru Kurniawan, 2022-10-10 The International Conference of Humanities and Social Science ICHSS 2021 aims to encourage and provide opportunities for researchers and academics to exchange views and opinions answer and debate policy relevant issues and produce academic research outputs on important topics language ICHSS is an Indonesian Language Education Doctoral Program Alumni Association program Sebelas Maret University Surakarta The basic idea to encourage research in the linguistic sciences is to have maximum research impact on education culture social arts and humanities language and literature religion gender and children and literacy It also aims to improve coordination between academics scholars stakeholders and policymakers **On Collective Intelligence** Theo J Bastiaens, Ulrike Baumöl, Bernd Krämer, 2010-10-12 Welcome to the proceedings of the inaugural Symposium on Collective Intelligence COLLIN 2010 This was the first of a new series of events that will evolve over the coming years and we were happy to hold the event in Hagen where the idea for this symposium was born The participants visited Hagen in April with excellent opportunities to get rain wind and sun Collective intelligence denotes a phenomenon according to which the purposeful interaction between individuals creates intelligent solutions and behaviors that might not have come to existence without this concerted effort of a community The members of such communities form a social network typically over the Internet They are engaged with each other over a sustained period of time to develop an area of innovation through collaboration and exchange of ideas experiences and information Leading edge information and communication technologies ICT offer ample opportunities for enabling collective intelligence COLLIN aims to become the flagship conference in the areas collective intelligence and ICT enabled social networking which is attracting more and more researchers and practitioners from both academia and industry *Specialized Communication* Thorsten Roelcke, Ruth Breeze, Jan Engberg, 2025-06-02 Specialized communication in science technology or institutions is one of the most important and exciting fields of applied linguistics The handbook captures the current and relevant knowledge of specialized languages and professional communication It promotes international communication on central issues where dialogue is urgently needed concerning both their intellectual underpinning and the day to day practices associated with them **Data Science and Machine Learning for Non-Programmers** Dothang Truong, 2024-02-23 As

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