

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.)

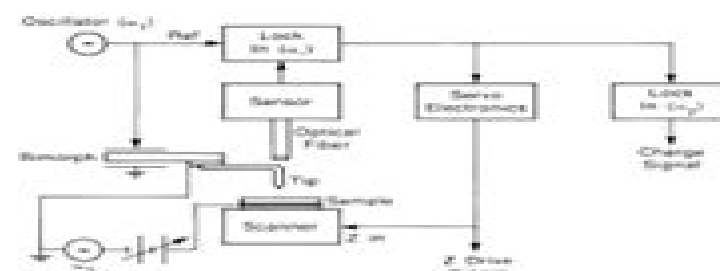


FIG. 1. Block diagram of the force microscope.

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

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Scientometrics have become an essential element in the practice and evaluation of science and research, including both the evaluation of individuals and national assessment exercises. Yet researchers and practitioners in this field have lacked clear theories to guide their work. As early as 1981, then-doctoral student Blaise Cronin published *The Need for a Theory of Citing*, a call to arms for the fledgling scientometric community to produce foundational theories upon which the work of the field could be based. More than three decades later, the time has come to reach out to the field again and ask how they have responded to this call. This book compiles the foundational theories that guide informetrics and scholarly communication research. It is a much-needed compilation by leading scholars in the field that gathers together the theories that guide our understanding of authorship, citing, and impact. *Archives of the Scientific Revolution* Michael Cyril William Hunter, Michael Hunter, 1998 The seventeenth century in Western Europe remains the key time and place for the development of modern science; the basic theme of this book is what the nature of seventeenth-century archives can tell us about this development through a series of case studies. Boyle, Galileo, Huygens, Newton included. Manuscript collections created by the individuals and institutions who were responsible for the scientific revolution offer valuable evidence of the intellectual aspirations and working practices of the principal protagonists. This volume is the first to explore such archives, focusing on the ways in which ideas were formulated, stored, and disseminated, and opening up understanding of the process of intellectual change. It analyses the characteristics and history of the archives of such leading intellectuals as Robert Boyle, Galileo Galilei, G. W. Leibniz, Isaac Newton, and William Petty. Also considered are the new scientific institutions founded at the time: the Royal Society and the Académie des Sciences. In each case, significant broader findings emerge concerning the nature and role of such holdings; an introductory essay discusses the interpretation and exploitation of archives. MICHAEL

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