

# 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 (6<sup>th</sup> – 7<sup>th</sup> 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”.<sup>10</sup>

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.<sup>9</sup> 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,<sup>1</sup> (probably to avoid creating a false reinforcement in the feedback loop which could cause unpredictable or uncontrollable behavior and oscillation.)

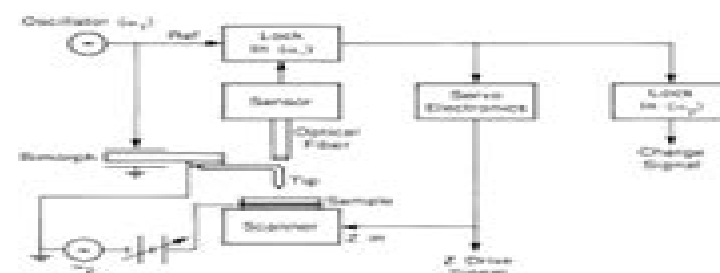


FIG. 1. Block diagram of the force microscope.

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

# Examples Of Scientific Research Papers

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**Writing Scientific Research Articles** Margaret Cargill, Patrick O'Connor, 2011-09-13 Margaret Cargill's background as a linguist and research communications educator and Patrick O'Connor's experience as both research scientist and educator synergize to improve both the science and art of scientific writing. If the authors' goal is to give scientists the tools to write and publish compelling well-documented clear narratives that convey their work honestly and in proper context, they have succeeded admirably. *Veterinary Pathology* July 2009. The book is clearly written, has a logical step-by-step structure, is easy to read, and contains a lot of sensible advice about how to get scientific work published in international journals. The book is a most useful addition to the literature covering scientific writing. *Aquaculture International* April 2009. **Writing Scientific Research Articles: Strategy and Steps** guides authors in how to write as well as what to write to improve their chances of having their articles accepted for publication in international peer-reviewed journals. The book is designed for scientists who use English as a first or an additional language for research students and those who teach them paper-writing skills and for early career researchers wanting to hone their skills as authors and mentors. It provides clear processes for selecting target journals and writing each section of a manuscript, starting with the results. The stepwise learning process uses practical exercises to develop writing and data presentation skills through analysis of well-written example papers. Strategies are presented for responding to referee comments as well as ideas for developing discipline-specific English language skills for manuscript writing. The book is designed for use by individuals or in a class setting. Visit the companion site at [www.writeresearch.com.au](http://www.writeresearch.com.au) for more information.

**Writing and Publishing Science Research Papers in English** Karen Englander, 2013-10-11. This book provides a comprehensive review of the current knowledge on writing and publishing scientific research papers and the social contexts. It deals with both English and non-Anglophone science writers and presents a global perspective and an international focus. The book collects and synthesizes research from a range of disciplines including applied linguistics, the sociology of science, sociolinguistics, bibliometrics, composition studies, and science education. This multidisciplinary approach helps the reader gain a solid understanding of the subject. Divided into three parts, the book considers the context of scientific papers, the text itself, and the people involved. It explains how the typical sections of scientific papers are structured. Standard English scientific writing style is also compared with science papers written in other languages. The book discusses the strengths and challenges faced by people with different degrees of science writing expertise and the role of journal editors and reviewers.

**(Free Sample) Uttar Pradesh Civil Services General Studies Solved Papers Prelim (2015 - 20) & Main (2018 - 20) Exams** Disha Experts, 2021-08-01 [Scientific and Technical Translation](#) Maeve Olohan, 2015-09-16. Routledge Translation Guides cover the key translation text types and genres and equip translators and students of translation with the skills needed to translate them. Concise, accessible, and written by leading authorities, they include examples from existing translations, activities, further reading suggestions, and a

glossary of key terms Scientific and Technical Translation focuses on texts that are typically translated in scientific and technical domains such as technical instructions data sheets and brochures patents scientific research articles and abstracts popular science press releases and news reports In seven chapters this practical textbook Introduces readers to the typical contexts in which scientific and technical translators work Shows how corpus resources can be used for terminological and phraseological research Considers how translation technologies are employed in technical and scientific translation Explains a range of technical and scientific genres and their translation Including a wide range of relevant tasks and activities examples from the most commonly taught language pairs and a glossary of key terms this is the essential textbook for modules on scientific and technical translation and specialised translation

**Research-Based Learning: Case Studies from Maastricht University** Ellen Bastiaens,Jonathan van Tilburg,Jeroen van Merriënboer,2017-03-20 This book describes lessons learned from the implementation of research based learning at Maastricht University Well known for its problem based learning PBL educational model Maastricht University implemented research based learning RBL as a new educational concept in addition to PBL around 2009 The model has taken the shape of an excellence programme offering third year bachelor students an 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

Computational Science - ICCS 2020 Valeria V. Krzhizhanovskaya,Gábor Závodszky,Michael H. Lees,Jack J. Dongarra,Peter M. A. Sloot,Sérgio Brissos,João Teixeira,2020-06-18 The seven volume set LNCS 12137 12138 12139 12140 12141 12142 and 12143 constitutes the proceedings of the 20th International Conference on Computational Science ICCS 2020 held in Amsterdam The Netherlands in June 2020 The total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions 230 submissions to the main track and 489 submissions to the workshops The papers were organized in topical sections named Part I ICCS Main Track Part II ICCS Main Track Part III Advances in High Performance Computational Earth Sciences Applications and Frameworks Agent Based Simulations Adaptive Algorithms and Solvers Applications of Computational Methods in Artificial Intelligence and Machine Learning Biomedical and Bioinformatics Challenges for Computer Science Part IV Classifier Learning from Difficult Data Complex Social Systems through the Lens of Computational Science Computational Health Computational Methods for Emerging

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*How to Write and Illustrate a Scientific Paper* Björn Gustavii, 2003-06-30 Step by step guide to writing a scientific paper and to presenting and illustrating the information effectively **Scientific and Technical Aerospace Reports**, 1976

**Pharmaceutical Practice E-Book** Arthur J. Winfield, Judith Rees, Ian Smith, 2009-07-21 This comprehensive book covers a wide range of subjects relevant to pharmacy practice including communication skills managing a business quality assurance dispensing calculations packaging storage and labeling of medicines sterilization prescriptions hospital based services techniques and treatments adverse drug reactions pharmacoeconomics and medicines management Features useful appendices on medical abbreviations pharmaceutical Latin terms weights and measures and presentation skills This is a core text for pharmacy practice and dispensing modules of the pharmacy curriculum Covers key exam material for essential review and test preparation Features a user friendly design with clear headings chapter summaries helpful boxes and key points Text restructured with 14 new or radically revised chapters All text revised in light of current pharmaceutical practice New design using two colours Climate Change Research and Scientific Integrity United States. Congress. Senate.

Committee on Commerce, Science, and Transportation, 2010 **Scientific Writing and Communication in Agriculture and Natural Resources** P.K. Ramachandran Nair, Vimala D. Nair, 2014-01-03 The purpose of this book is to help early career professionals in agriculture and natural resources write their research papers for high quality journals and present their results properly at professional meetings Different fields have different conventions for writing style such that the authors of the book have found it difficult to recommend to young scientists in these fields a specific book or source material out of the several that are available as the go to guide Writing a scientific paper is a tedious task even to experienced writers but it is particularly so for the early career professionals such as students trainees scientists and scholars in agriculture and natural resources the challenge is even more when their first language of communication is not English This book is targeted mainly to that group *Japan's Triple Disaster* Natalia Novikova, Julia Gerster, Manuela G. Hartwig, 2023-06-09 The authors of this volume discuss questions of disaster and justice from various interdisciplinary vantage points including public policy science and technology studies law gender sociology and psychology social and cultural anthropology town planning and tourism The term natural disasters is a misnomer cataclysmic natural events that impact humans can often be anticipated and their

consequences should be prevented the failure to do so is a failure of politics policy and risk planning Presenting research on more than a decade after the Great East Japan Earthquake the chapters highlight not only the manifold challenges in the direct disaster response and policymaking but also the difficulties of just long term recovery Arguing for just distribution recognition and participation this volume provides a diversity of perspectives on these issues as experienced after the 2011 disasters through detailed and nuanced analyses presented by early career researchers and senior academics coming from various countries and continents of the world The insights of this volume galvanise the discussion of disaster governance and highlight the variety of disaster in justices and the ways disasters force people to contest and reimagine their relationships with their countries neighborhoods families and friends A valuable read for scholars and students researching issues related to mass emergencies justice theory and civil activism *Health Sciences Literature Review Made Easy* Judith Garrard,2007 Reference tool to aid students researchers and clinicians across all health disciplines Addresses conducting a search of literature using electronic databases organizing journal articles choosing topics to abstract and creating abstracts of research articles to write a synthesis of the literature ADVANCED ENGLISH GRAMMAR FOR WRITERS AND PROFESSIONALS Ifeoluwapo Wumi,2025-03-28 Master Advanced English Grammar to Elevate Your Writing and Professional Communication In today s fast paced world the ability to write and communicate effectively is more important than ever Advanced English Grammar for Writers and Professionals Speak Read and Write is a comprehensive guide designed to help writers professionals and students refine their command of the English language This book goes beyond basic grammar rules providing in depth explanations real world examples and practical exercises tailored for business academic technical and creative writing Whether you re crafting persuasive business proposals compelling fiction or precise research papers this book equips you with the advanced grammatical tools to communicate with clarity precision and confidence Inside this book you will learn Complex sentence structures for impact and clarity Advanced punctuation techniques for professional writing The subtle nuances of verb tenses and modality Effective use of the passive voice for objectivity Grammar strategies for business academic and creative writing Common grammar mistakes and how to avoid them Self assessment exercises and writing drills With step by step guidance and expert insights this book is the ultimate resource for anyone who wants to elevate their writing skills to a professional level Whether you are an author editor academic or business professional Advanced English Grammar for Writers and Professionals is your go to reference for mastering the art of effective communication Proceedings of the 2024 4th International Conference on Internet Technology and Educational Informatization (ITEI 2024) Mir Sajjad Hussain Talpur,Muhd Khaizer Omar,Masrah Azrifah Azmi Murad,Nur Izura Binti Udzir,2024-11-01 This is an open access book As a contributor to the global trend of technological innovation China continues to create a more open environment for scientific and technological innovation constantly enhancing the depth and breadth of academic cooperation and building an innovation community that benefits all parties This is a new contribution to

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**Writing in European Higher Education** Lennart Björk, Gerd Bräuer, L. Rienecker, Peter Stray Jørgensen, 2005-12-30 DAVID RUSSELL English Department of Iowa State University U S A I was fortunate to attend as a visitor from the U S the first European Association for the Teaching of Academic Writing EATAW conference in 2001 at Groningen I was struck by the similarities in the challenges higher education faces on both sides of the Atlantic in terms of developing students academic writing and students learning through writing It is indeed an international problem But I was equally struck by the profound differences in responding to these challenges among institutions disciplines and even within disciplines The essays in this extraordinary volume address a growing demand for help with academic writing on the part of students and academic staff alike And they do so in ways that bring fresh approaches not only to Europeans who have only recently begun to study academic writing but also to researchers and academic staff in the U S where we have a century old tradition of attention to the problem but are much in need of these fresh approaches Academic writing has become a problem in higher education all around the world because higher education sits smack between two contradictory pressures On one end far more students and far more diverse students come streaming into higher education bringing in a far greater diversity of linguistic resources often interpreted as standards are falling as Frank Haacke Tente point out *Bulletin of the Atomic Scientists*, 1983-08 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world

**Maintaining the Integrity of Scientific Research** United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Investigations and Oversight, 1990 English for IT Communication Tony Myers, Jaime Buchanan, 2024-11-29 English for IT Communication provides a comprehensive introduction for students and professionals studying IT or computer science and covers all forms of technical communication from emails and memos through procedures to reports and design specs In each case the book offers multiple real world examples looking at who the texts are written for what their purpose is and how these affect what is on the page Key features of this book include How to write for different audiences and purposes How to design documents for ease of access and understanding How to

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