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Electrical forces play a dominant role in the structure of atoms and molecules and an important role in the structure of nuclei. Unlike mechanical phenomena, electrical phenomena are often beyond the direct perception of our senses. Consequently, electrical phenomena are more difficult to comprehend than mechanical phenomena.

Electrical Phenomena - an overview | ScienceDirect Topics

With these fundamentals of correlated electrons at interfaces in mind, we describe below how to design and realize various novel functions and phenomena such as charge, orbital and spin...

Emergent phenomena at oxide interfaces | Nature Materials

It starts with fundamental electrostatics at interfaces and includes a detailed description of fundamental theories dealing with electrical double layers around a charged particle, electrokinetics, and electrical double layer interaction between charged particles. The stated fundamentals are provided as the underpinnings of sections two, three, and four, which address electrokinetic phenomena that occur in nanoscience, bioscience, and environmental science.

Wiley: Electrical Phenomena at Interfaces and ...

(1) Surfactant Science Series, Consulting Editor Martin J. Schick Consultant New York, Vol. 76 Electrical Phenomena at Interfaces Second Edition, Fundamentals, Measurements and Applications, Second Edition, Revised and Expanded. Ed by Hiroyuki Ohshima, Kunio Furusawa. 1998. K. Oka and K. Furusawa, Chapter 8

Electrophresis, p. 152 - 223.

Electrophoretic light scattering - Wikipedia
The second-order polarizationP2ö(2)arising from the oriented molecules at the interface can be expressed as where Eöis the incident optical field at frequencyö. A second contribution to the second harmonic signal is from the bulk solvent molecules polarized by the charged interface.

New Method for Determination of Surface Potential of ...
Abstract. The importance of surface charges in establishing electrical characteristics of interfaces, particularly of the solid/liquid, liquid/gas, and liquid/liquid ones, has already been stressed in the opening paragraphs of Chapter 1.

Electrical Characteristics of Interfaces. Electrical ...
In the second step, if there are ions existing in the liquid, such as H+ and OH-, the loosely distributed negative ions in the solution would be attracted to migrate toward the surface bonded ions due to electrostatic interactions, forming an EDL. Both electron transfer and ion transfer co-exist at liquid-solid interface.

Double layer (surface science) - Wikipedia
Received 17 September 1992; in final form 16 November 1992 The second harmonic generation from charged monolayers at air/water interfaces is shown to be linearly related to the interface electric potential. This dependence is due to the polarization of water molecules in the electrostatic field of the charged monolayer.

Polarization of water molecules at a charged interface ...
C. Cabuz, “Dielectric Related Effects in Micromachined Electrostatic Actuators”, 1999 Conference on Electrical Insulation and Dielectric Phenomena, IEEE press. 327–332, (1999) Google Scholar 3. M.R.Harris et al. “Limitations of Reluctance Torque in Double-Salient Structures”, Proc. Int. Conf.

Electrical Phenomena at the Interface of Rolling-Contact ...
Remarkable and unexpected phenomena have been discovered

at oxide heterostructure interfaces 1,2,3,4,5, which have a fundamental and potentially technological impact on future oxide-based devices ...

Tunable conductivity threshold at polar oxide interfaces ...

Electrochemical polarization phenomena at the interface of two immiscible electrolyte solutions ... The structure of the electrical double layer at the interface shown in Fig. 2 depends on the sign of ~q . If this is positive the part of the double layer situated in the phase ft contains a prevailing positive charge and the reverse is expected ...

Electrochemical polarization phenomena at the interface of ...

Electricity is the set of physical phenomena associated with the presence and motion of matter that has a property of electric charge.Electricity is related to magnetism, both being part of the phenomenon of electromagnetism, as described by Maxwell's equations.Various common phenomena are related to electricity, including lightning, static electricity, electric heating, electric discharges ...