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Kitahara and A.

Watanabe, Eds., Marcel

Dekker, New York,

1984 ...

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The importance of
surface charges in
establishing electrical
characteristics of
interfaces, particularly
of the solid/liquid,

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liquid/gas, and

liquid/liquid ones, has

already been stressed

in the opening

paragraphs of Chapter

1. Whenever a new

solid surface is formed

in a gaseous or a liquid

environment, as, for

example, during dry or

wet grinding, ...

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Characteristics of

Interfaces. Electrical

...

From magnetism,

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ferroelectricity and
superconductivity to
electrical and thermal
properties, oxides
show a broad range of
phenomena of
fundamental as well as
practical relevance.

Reviewed here are the
emergent phenomena
arising at the interface
between oxide
materials, which have
attracted considerable
interest...

Emergent

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**phenomena at oxide
interfaces | Nature
Materials**

Electrophoretic light scattering ... Fig. 4b includes additionally the contribution from the frequency changes of light scattered by PSS molecules under an electrical field of 40 V/cm. ... Vol. 76

Electrical Phenomena at Interfaces Second Edition, Fundamentals, Measurements and Applications, Second

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Expanded. Ed by

Hiroyuki ...

**Electrophoretic light
scattering -
Wikipedia**

Triboluminescence
describes the
phenomenon of light
being emitted from a
crystalline substance
when it is rubbed,
pulled apart, ripped,
scratched, or crushed.
Although this is
another poorly

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understood curiosity, it is thought that an electrical current travels through the material and causes molecules of gas trapped within the crystal to glow.

10 Strange Electrical Phenomena Found In Nature - Listverse

With the electrically isolated, gastric-retentive pill-based design presented in this study, it is possible

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that environmental
electrical phenomena
such as capsule
tumbling due to motion
not associated with
gastric contractions,
static electricity, and
external
electromagnetic
signals may affect the
measurements in an
ambulatory setting,
particularly if the
patient is mobile in an
electromagnetically
dynamic environment.

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definition of

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phenomena ...

The effects are important at very high electrical fields ($10^8 - 10^9$ V/m), like those observed in electrical double layers at interfaces or at the surfaces of electrodes in electrochemistry. More generally, the electric field effect (directly, through

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Wien effect -

Wikipedia

On the basis of a

theory of Imai and

Oosawa (Busseiron

Kenkyu52, 42 (1952);

59, 99 (1953)),

approximate analytic

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expressions for the surface charge density/surface potential relationship for a spherical colloidal particle in a salt-free (aqueous or nonaqueous) medium containing only counterions are derived. There is a certain critical value of the surface charge density (or the total surface ...

Surface Charge

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Relationship for ...

Andrei S. Dukhin, Philip

J. Goetz, in Studies in

Interface Science,

2010. Light scattering

clearly represents

electrical phenomena

in colloids at high

frequency (the

wavelength of light is

certainly smaller than

the system's

dimensions). However,

until very recently,

there was no mention

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in textbooks of

mechanical or

electromechanical

phenomena in the

region where λ is

shorter than the

system ...

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overview |

ScienceDirect Topics

The recent

development of

experimental

techniques for real-

time investigation of

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phenomena at interfaces has resulted in great advances in this field. The present review focuses on the dynamic characteristics of protein adsorption at interfaces investigated by recent time-resolved measurements.

Kinetics of protein unfolding at interfaces - IOPscience

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electrical transport, magnetism, optical response, thermal conductivity, and superconductivity.

These electron correlations prohibit the double occupancy of metal sites and induce a local entanglement of charge, spin, and orbital degrees of freedom.

**Emergent
Phenomena at Oxide**

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Interfaces

adsorption at liquid [7-12] and solid interfaces [13-18] have been published. The recent development of experimental techniques for real-time investigation of phenomena at interfaces has resulted in great advances in this field. The present review focuses on the dynamic characteristics of protein adsorption at

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interfaces investigated
by recent

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**Kinetics of protein
unfolding at
interfaces**

Fundamentals
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Simulation and
modeling, the main
issues are with the
interfaces between

design tools and
electrical modeling
tools, and not the
fundamental
understanding of
electrical phenomena.

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Some key issues are:
1) handling the complexity of large business systems and communication infrastructure products, 2) the ability to handle entire systems for these types of high-performance products, and 3) faster simulations driven by shortening effective design times in the portable/consumer sector.

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synonyms, Electrical
phenomena ...

Bizarre Electrical

Phenomena High

tension wires can glow
with an electrical

corona. In September
1949 William B.

Sanborn was standing
in a marsh in

Yellowstone National

Park when he saw a

"hazy patch of blue
light" sweep toward

him at several feet per

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**The UnMuseum -
Bizarre Electrical
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Collaborating to
conquer complexity.
The surprising
discovery that intrinsic
electric fields can drive
oxygen diffusion at
interfaces of complex
oxides may serve as a
basis for design of new
electronic devices
utilizing both electrons
and ions. The

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researchers, from

Korea, Norway, Ukraine

and the United

States,...

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