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Langmuir probe theory and applications have also become a significant part of contemporary Langmuir probe diagnostics. The author of the present book apologizes if he does not men-tion in this

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short essay all the

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A Langmuir probe is a device used to determine the electron temperature, electron density, and electric

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potential of a plasma. It works by inserting one or more electrodes into a plasma, with a constant or time-varying electric potential between the various electrodes or between them and the surrounding vessel. The measured currents and potentials in this system allow the determination of the physical properties of the plasma.

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Langmuir probe - Wikipedia

Working with glow discharge tubes (think of a neon sign), he invented diagnostic tools like the Langmuir probe to investigate the resulting “plasma” (a word he coined).

“Langmuir waves” were discovered in the plasma. Along the way he invented the mercury diffusion pump. In high vacuum, thin films can be

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adsorbed and studied.

5: Langmuir's Probe

The Langmuir probe is a small electrode which is submerged in plasma in order to measure the probe current-voltage characteristic. The same characteristic is processed further to derive the electron and ion concentration, the electron distribution function, and the plasma potential at the

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probe location.

Langmuir Probe in Theory and Practice: Shun'ko, Evgeny V

...

If you have already familiarized yourself with Langmuir probe theory, then you may find this treatment helpful. In this example I begin with the data acquired by measuring the current drawn by a Langmuir probe as the bias applied to that

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probe is varied. This data is analyzed in order to determine the plasma density, temperature, and potential.

Example of Langmuir Probe Analysis | David Pace

On the other hand, the most widespread use of Langmuir probes at present is in the semiconductor industry, where

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radiofrequency (rf) sources are used to produce plasmas for etching and deposition. These partially ionized plasmas require special techniques in probe construction and theory.

Lecture Notes on

The Langmuir probe is a small electrode which is submerged in plasma in order to measure the probe current-voltage

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characteristic. The same characteristic is processed further to derive the electron and ion concentration, the electron distribution function, and the plasma potential at the probe location.

Langmuir Probe in Theory and Practice:

The Planar Langmuir Probe, PLP, in its simplest form is just a flat plate and perhaps a guard ring placed on

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the ram side of a Low Earth Orbit spacecraft such that it can intersect an uninterrupted flow of plasma.

Theory and Capability of the Planar Langmuir Probe - NASA/ADS

The concept of the Langmuir probe was developed almost a century ago and is named after its inventor Irving

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Langmuir. The
Langmuir probe was
the first diagnostic tool
used for studying
plasmas in detail and it
is still widely used
today. Langmuir
probes, in principle,
provide a simple and
relatively inexpensive
diagnostic for
measuring the plasma
parameters.

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Probe | Theory

Langmuir in the 1920s*. The advantage of the probe method is that we can measure local parameters of studied plasma almost all other techniques, such as spectroscopy or microwave propagation, give information averaged

Theory and application of Langmuir probes

The Langmuir Probe is

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the key plasma diagnostic used by scientists interested in plasma characterisation to measure the internal parameters of the bulk of the plasma. Among the key parameters measured are electron density, ion density, electron temperature, plasma potential, floating potential and the electron energy distribution function (EEDF).

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The Langmuir probe is a small electrode which is submerged in plasma in order to measure the probe current-voltage characteristic. The same characteristic is processed further to derive the electron and ion concentration, the electron distribution

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function, and the plasma potential at the probe location.

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Conventional Langmuir probe theory assumes collisionless movement of charge carriers in the space charge sheath around the probe. Further it is assumed that the sheath boundary is

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well-defined and that beyond this boundary the plasma is completely undisturbed by the presence of the probe.

Plasma diagnostics - Wikipedia

The Langmuir probe is a simple and conventional instrument for determining the basic characteristics of thermal plasma in the ionosphere, and has

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been frequently installed on sounding rockets and satellites for more than 40 decades.

Langmuir probe - TERRAPUB

THE THEORY OF
COLLECTORS IN
GASEOUS DISCHARGES
BY H. M. MOTT-SMITH
AND IRVING LANGMUIR

ABSTRACT When a
cylindrical or spherical
electrode {collector}
immersed in an ionized

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gas is brought to a suitable potential, it becomes surrounded by a symmetrical space-charge region or "sheath" of positive or of negative ions (or electrons).

The Theory of Collectors in Gaseous Discharges

The collected current by spherical and cylindrical Langmuir probes immersed in an unmagnetized and

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collisionless non-Maxwellian plasma at rest are theoretically studied, and analytical expressions for the currents of attracted and repelled plasma particles are presented.

Theory and simulations of spherical and cylindrical ...

The Langmuir probe, a small electrode immersed in the

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plasma, provides such measurements.

However, designing of a Langmuir probe system in a dusty plasma environment demands special consideration. First, the probe has to be miniaturized enough so that its perturbation on the ambient dust structure is minimal.

Langmuir probe in collisionless and collisional plasma ...

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