

Langmuir Probe In Theory And Practice

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

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vessel. The measured currents and potentials in this system allow the determination of the physical properties of the plasma.

Langmuir probe - Wikipedia

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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 mention in this short essay all the scientists who participated in building the probe diagnostics methods to their contemporary form.

Langmuir Probe in Theory and Practice

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. However, there are a number of issues in the design and interpretation of Langmuir probe characteristics which have led in the past to a wide disparity in measured parameters obtained under similar conditions.

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The Langmuir Probe is 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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On the other hand, the most widespread use of Langmuir probes at present is in the semiconductor industry, where radiofrequency (rf) sources are used to produce plasmas for etching and deposition. These partially ion- ized 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 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.

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3.7d IonbranchofprobeI-Vcharacteristic, $V < V_j$, in afterglowplasma. 183 3.7e Intermediate part of probe I-V characteristic in afterglow plasma. 185 3.7f Probe diagnostics of afterglowplasmas, summary. 192s

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Langmuir probe diagnostics afford rapid measurements of the electron distribution function and plasma potential at a good time resolution, 10⁻⁸ seconds in a wide range of plasma densities 10⁺³ - 10⁺¹⁴ cm⁻³, and the electron energy from the room temperature to hundreds of electron-volts - qualities which are essential for researchers.

[Langmuir Probe in Theory and Practice - Evgeny V. Shun'ko ...](#)

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