

Numerical and experimental diagnostics of rf discharges in pure and dusty argon

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Self-consistent fluid and particle-in-cell Monte Carlo (PIC-MC) models in conjunction with experimental measurements have been used to study the electrical characteristics of rf discharges in pure argon and in argon contaminated with dust particles (at 0.11 torr argon, 13.56 MHz). In the experiments, the dust particles were first created in a silane-argon rf discharge and subsequently trapped in an argon discharge in order to stop the growth process. The concentration and radius of the dust particles were measured experimentally and found equal to 10^6 cm^{-3} and 0.05 μm , respectively. The PIC-MC discharge model has been used to check the validity of the fluid model in pure argon. The discharge in dusty argon has been described with a fluid model modified to account for the presence of dust particles. This model uses as input data the number of negative charges carried by the dust particles and the frequency of electron loss to the particles deduced from a two-dimensional particle-in-cell Monte Carlo simulation of a dusty dc plasma. The results show good agreement between experiments and models within the whole range of rf voltages considered and for the pure and dusty argon plasmas. The presence of dust particles in the plasma modifies considerably the discharge impedance, which becomes much more resistive. The electron number density in the plasma is much smaller than the positive ion density and than the number density of negative charges carried by the dust particles. It appears that the phase shift between current and voltage is very sensitive to the presence of powders. This property could be useful for the detection of powder formation in a processing plasma.

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I. INTRODUCTION

The appearance of dust particles in low-pressure plasmas used in material processing for sputtering, etching, or deposition is now recognized as an important factor of device-yield-reducing contamination for the semiconductor manufacturing industry. Schwyn, Singh, and Bennet have reported [1] that 50% of device yield loss can be attributed to particle contamination. However, a positive aspect of particle formation in plasmas is the fabrication of nanoscale particles for material applications [2]. Anderson, Jairath, and Mock [2] have fabricated silicon-nitride particles in a low-pressure discharge in a SiH_4/NH_3 mixture.

Particle formation in low-pressure plasmas and the study of the perturbations induced by these particles on the plasma properties have recently attracted the interest of modelers [3–7]. Dust particles immersed in a weakly ionized plasma behave as electrostatic probes and acquire a negative charge and a floating potential negative with respect to the plasma potential. The role of the floating potential is to repel electrons which are much more mobile than ions and to attract positive ions to ensure an exact balance between the electron and the ion fluxes to the dust particles at steady state. In order to compensate for the loss of electrons and ions to the dust particles, the

plasma electric field must increase so as to increase the production of charged particles by ionization. The electron-energy distribution function in the plasma column is modified in the presence of powders with respect to the pristine case not only because the electrons with an energy larger than the floating potential of the particles can be absorbed by the particles, but also, and more importantly, because the plasma electric field must be much higher in a dusty plasma.

Dramatic changes in the electrical characteristics of the plasma have been observed due to the presence of particles. It is the goal of this paper to provide a better understanding of these changes and a better insight into the physics of a dusty plasma by comparing experimental measurements with results of self-consistent numerical modes in pure and dusty discharges. A spectacular example of these changes in the plasma impedance is given in Ref. [8] where a sharp transition from a capacitive to a resistive behavior was observed above a critical applied voltage in a rf discharge in pure silane. With the help of numerical models of the discharge, this transition was attributed to the formation of dust particles [9]. In the present paper and in order to make possible direct and simple comparisons between experiments and models, the conditions of the experiments were chosen in such a way that the concentration and size of the dust particles were

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