

ELECTROMAGNETIC WAVES AT THE ROUGH INTERFACE OF A PLASMA SOLID

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S u m m a r y

The dispersion law for surface polaritons in inhomogeneous plasma is obtained and investigated. Plasma is formed by the surface electron states at the interface of a solid under the conditions where the scale of inhomogeneity is much greater than the wavelength. We show that nonuniformity of plasma results in the appearance of the spatial dispersion of surface electrostatic oscillations.