

CALCULATION OF ELECTRON DENSITY
AND DIPOLE BARRIER FOR THE METALS
WITH PLANE SEPARABLE SURFACE

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The one-particle electron distribution function for the jellium model of semi-constrained metal with allowance for the exchange-correlation effect is calculated by the functional integration method. For the case of finitely- and infinitely-high potential barriers, the numerical results for the electron distribution and dipole barrier are given for the metal-like electron concentration.