

EFFECTIVE POTENTIAL
OF ELECTRON-ELECTRON INTERACTION
IN THE SEMIINFINITE ELECTRON GAS
WITH REGARD FOR THE LOCAL-FIELD
CORRECTION

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S u m m a r y

The effective potential of electron–electron interaction and the two-particle “density–density” correlation function have been calculated for a simple semiinfinite metal making allowance for the local-field correction. The influences of a flat interface and various models of local-field correction on the results of calculations are analyzed.