Erratum

Curvature Dependence of Surface Phonon and Plasmon Frequencies

R. Brako, J. Hrnčević, and M. Šunjić

Z. Physik B **21**, 193–201 (1975)

In Table 1 an incorrect result for the edge geometry is given, due to an error in the calculation. The correct one was obtained previously by Dobrzynski and Maradudin [20] in an article which skipped to our attention, and was kindly pointed to us by A. A. Lucas. The dispersion relation is:

$$\varepsilon(\omega) = - \left[\frac{\operatorname{th} \left(\pi - \frac{\alpha}{2} \right) v}{\operatorname{th} \frac{\alpha}{2} v} \right]^{\pm 1}$$

or

$$\omega_{v\pm}^2 = \omega_T^2 + \frac{\omega_p^2}{2} \left[1 \pm \frac{\operatorname{sh}(\pi - \alpha) v}{\operatorname{sh} \pi v} \right]$$

so that the dispersion does exist. In Eq. (1.4) of Table 1 ω^2 should read ω_l^2 .

In the dispersion relation for oblate spherioid, (2.2) of Table 2, a factor is missing, and the relation should read:

$$\omega_{lm}^2 = \omega_T^2 + \omega_p^2 (-1)^{m+1} \frac{(l-m)!}{(l+m)!} (1 + \xi_0^2) P_l^{m'}(i \xi_0) Q_l^m(i \xi_0).$$

Values for Fig. 2 were computed from the exact expression.

In addition to references given in the article, the paraboloid geometry was discussed by Nourtier [21], and the cube geometry by several authors [22, 23].

References

20. Dobrzynski, L., Maradudin, A. A.: Phys. Rev. B **6**, 3810 (1972)
21. Nourtier, A.: Ann. Phys. **8**, 443 (1974)
22. Van Gelder, A. P., Holvast, J., Stoelinga, J. H. M., Wyder, P.: J. Phys. C **5**, 2757 (1972)
23. Fuchs, R.: Phys. Rev. B **11**, 1732 (1975)

R. Brako
J. Hrnčević
M. Šunjić
Institute "Rudjer Bošković"
P.O. Box 1016
41001 Zagreb, Yugoslavia