Errata

Erratum: Quantum-mechanical theory of stress and force [Phys. Rev. B 32, 3780 (1985)]

O. H. Nielsen and Richard M. Martin

We have noted the following inconsistencies in the above paper. In Eq. (14) the quantum-mechanical expectation value was omitted by mistake. Both terms on the right-hand side should appear as expectation values enclosed in $\langle \cdots \rangle$. In Eqs. (17) and (18) the factor $\delta(\mathbf{r}-\mathbf{r}_{i\beta})$ in the first term on the right-hand side should read $\delta(r_\beta - r_{i\beta})$. In Eqs. (33) and (35) the kinetic term for a given particle coordinate r_i averaged over one face of the unit cell,

$$\frac{1}{|A_j|}\int_{A_j} dA_j \ ,$$

where A_j denotes a face of the unit cell, is implicitly contained in the expectation values $\langle \cdots \rangle$ which signifies an integral over all of space. The proper expression is found by removing the integral over A_j quoted above and dividing instead by the total area of the plane surface, i.e., $N_j |A_j|$, where N_j denotes the number of unit cell faces contained in the plane. For infinite crystals this should be interpreted as the limit $N_j \to \infty$. Finally, the line following Eq. (34) should read "must be added to Eq. (33)."

Erratum: Electron correlation and the band gap in ionic crystals [Phys. Rev. B 32, 7005 (1985)]

Mark S. Hybertsen and Steven G. Louie

The value cited for the calculated macroscopic dielectric constant in the random-phase approximation for LiCl (3.3) is incorrect and should be replaced by 2.9. This has no effect on the self-energy calculation. Also, an improved procedure for updating the spectrum in the self-energy calculation yields a direct gap of 9.1 eV for LiCl which is larger by 0.2 eV than the previous value.

Erratum: Electron charge densities at conduction-band edges of semiconductors [Phys. Rev. B 33, 1177 (1986)]

Steven L. Richardson, Marvin L. Cohen, Steven G. Louie, and James R. Chelikowsky

The second paragraph of Sec. II should refer to *four* Gaussians for the arsenic atom and *five* Gaussians for the gallium atom instead of *five* and *six*, respectively.

The following sentence was inadvertently omitted from the end of Sec. II: In particular, the corrections for the nonlocal potential are $a_i = -0.63$ and $b_i = 0.1882$ for As, and $a_i = -0.13$ and $b_i = 0.1882$ for Ga, as discussed in Ref. 9.

