

ERRATA

Erratum: Tight-binding computations of elastic anisotropy of Fe, Xe, and Si under compression [Phys. Rev. B 56, 8575 (1997)]

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The on-site terms for our tight-binding model were not properly presented in our paper, though they were properly coded and all of the results are unchanged. In the first parametrization [Eq. (9)] another term was included, so that the on-site terms $D_{\alpha k}$ for $\alpha = s, p$, and d for each atom k were fitted to a finite strain polynomial

$$D_{\alpha k} = e_{\alpha \tilde{k}} + g_{\alpha \tilde{k}} \rho_k^{2/3} + h_{\alpha \tilde{k}} \rho_k^{4/3} + i_{\alpha \tilde{k}} \rho_k^2,$$

where the last term was neglected in the paper.

For the second parametrization [Eq. (12)], the d parameters should have been presented as

$$D_{d_{xz}} = q_d + \frac{x^2 z^2}{r^4} I_{dd\sigma},$$

$$D_{d_{yz}} = q_d + \frac{y^2 z^2}{r^4} I_{dd\sigma},$$

$$D_{d_{xy}} = q_d + \frac{x^2 y^2}{r^4} I_{dd\sigma},$$

$$D_{d_{(x^2-y^2)}} = q_d + \frac{(x^2 - y^2)^2}{r^4} I_{dd\sigma},$$

$$D_{d_{(3z^2-r^2)}} = q_d + \frac{(3z^2 - r^2)^2}{r^4} I_{dd\sigma}.$$

The parameters for Fe, Xe, and Si are available at http://www.gli.ciw.edu/~cohen/research/elastic_tb/sktab.htm.

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Erratum: Vortex motion in charged and neutral superfluids: A hydrodynamic approach [Phys. Rev. B 57, 575 (1998)]

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The last sentence in the conclusion is imprecise and should read: “We find that the most important contribution in charged and neutral BCS superfluids originates from the core mass, whereas it is the logarithmically divergent compressibility mass which provides the most relevant term in a bosonic superfluid.” The detailed discussion of this point can be found in Sec. III B of the paper.

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