

## Erratum: Dynamics of hydrogen atom and proton transfer reactions. Nearly degenerate asymmetric case [J. Chem. Phys. 78, 5621 (1983)]

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In Eq. (3.9) the  $\frac{1}{2}$  superscript should be deleted from  $|S_{12}|^{1/2}$ , in Eq. (4.1) the  $Q_{ii}$ 's should each be multiplied by  $\frac{1}{2}$ , a term  $-\frac{1}{2}Q_{12}\varphi_2(\rho)$  should be added to the right-hand side of the first equation and  $-\frac{1}{2}Q_{21}\varphi_1(\rho)$  to the second. The denominator in Eq. (4.8) should be squared and the 0.5 kcal mol<sup>-1</sup> in Ref. 5 should read 0.5 cal mol<sup>-1</sup>. In Ref. 1 of this article, the  $\chi$ 's in Eqs. (3.11) and (3.12) should be  $\eta$ 's and Fig. 2 is for surface 1b rather than for surface 2.

None of the results are affected by these corrections,

since the latter are either misprints or inadvertent omissions in the printed article. A point not made clear is that in Fig. 8 the solid line was calculated for  $\rho < 3.25$  using Eq. (4.5) and for  $\rho > 3.25$  using Eq. (4.20). The  $\Gamma_i$ 's in the latter were calculated at the exact quantum eigenvalues  $\epsilon_i$ , i.e.,  $\Gamma_i = \Gamma(\epsilon_i)$ .

We are indebted to Mr. R. J. Cave of the California Institute of Technology and Dr. D. Ali of the University of Colorado at Boulder for calling some of these points to our attention.

## Erratum: $\Delta M_j$ transitions in homonuclear molecule scattering off corrugated surfaces. Square and rectangular lattice symmetry and purely repulsive interaction [J. Chem. Phys. 80, 3845 (1984)]

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The values of the parameters  $\alpha$  and  $A$  for H<sub>2</sub>/surface scattering given on p. 3846 should be:  $\alpha = 1.9395 \text{ \AA}^{-1}$  and  $A = 10.00 \text{ eV}$ . (The results are independent of the value of  $A$  but not of the value of  $\alpha$ .) The values in Table XVI obtained using the stationary phase method are for a corrugation parameter  $\beta = 0.03$ ; the transition probabilities computed using this method for  $\beta = 0.1$  showed the same selection rules as were obtained using other methods, and, like the other stationary phase results, were found to be quantitatively unreliable. All the conclusions of the paper are unaffected by the above changes.