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Erratum: Radiative And Predissociative Lifetimes Of The A $^2\Sigma^+$ State Of OH

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Erratum: Radiative and predissociative lifetimes of the $A\ ^2\Sigma^+$ state of OH

R. A. Anderson; R. A. Sutherland



J. Chem. Phys. 59, 6690–6691 (1973)

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Errata

THE JOURNAL OF CHEMICAL PHYSICS VOLUME 59, NUMBER 12 15 DECEMBER 1973

Erratum: Radiative and predissociative lifetimes of the $A^2\Sigma^+$ state of OH^*

[J. Chem. Phys. 58, 1226 (1973)]

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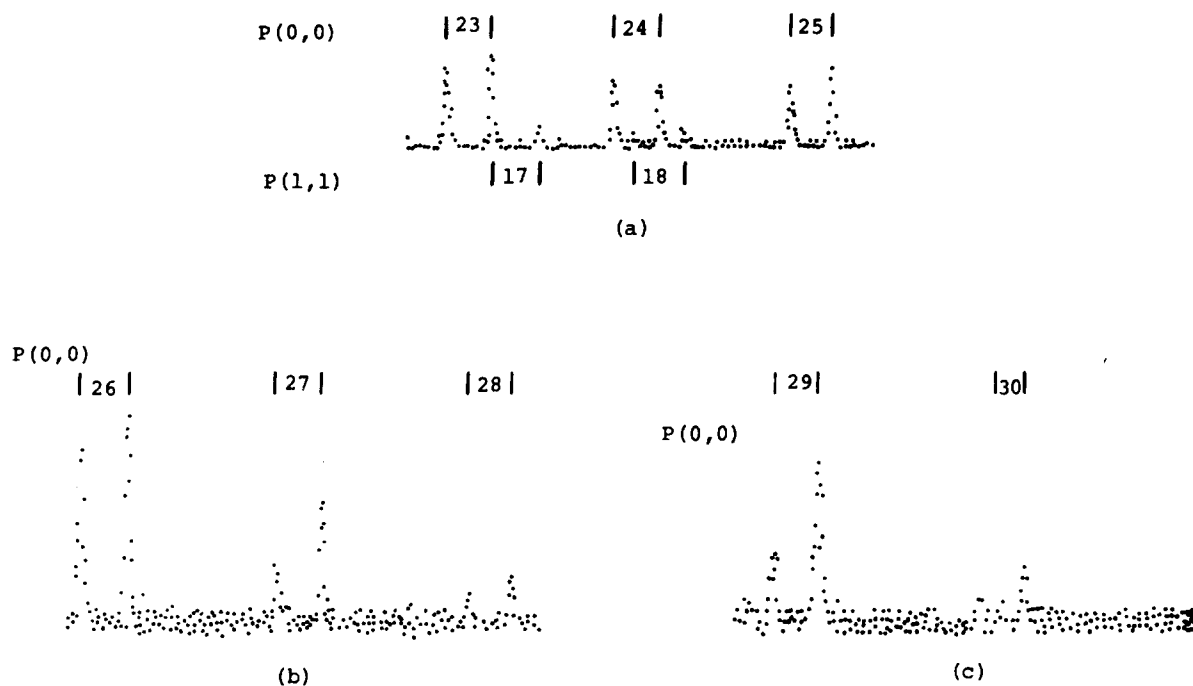


FIG. 1. Recorder plot of the spectral region.

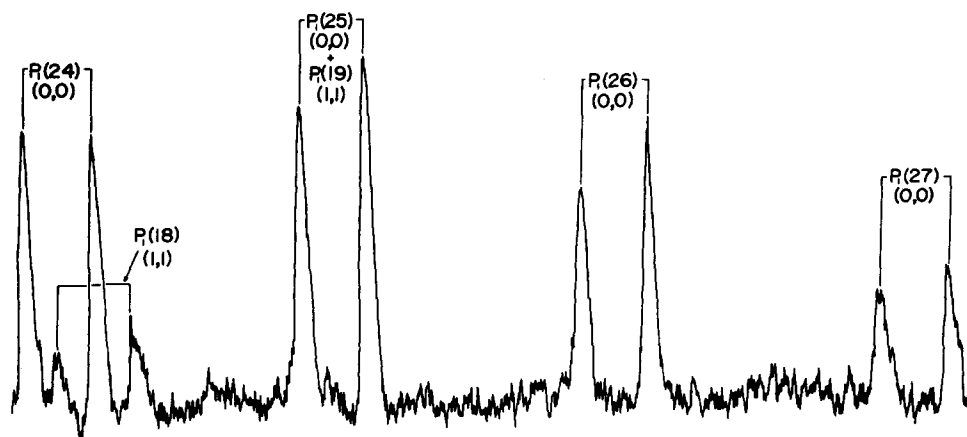


FIG. 2. Correct multichannel analyzer spectrum of Fig. 1.

Figure 2 in this recent paper by Sutherland and Anderson was copied in error. Figure 1 is a recorder plot of this spectral region taken at the same resolution as the multichannel analyzer spectrum. Figure 2 in this Erratum is a correct multichannel analyzer spectrum of this region. The error in the reproduction of the $P_1(24)$, $P_1(18)$, $P_1(25)$, and $P_1(19)$ lines in the original paper is evident from these new figures.

The reference to the work of Hesser and Lutz¹ was incorrectly quoted. They accounted for the CH predissociation by level crossing of the $C^2\Sigma^+$ state with the $^4\pi$ state.

*This research supported by the Office of Naval Research Grant ONR-N00014-69-A-0141-0004.

¹J. E. Hesser and B. L. Lutz, *Astrophys. J.* **159**, 703 (1970).

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Erratum: Surface thermodynamic functions for NaCl

[J. Chem. Phys. 55, 3121 (1971)]

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Erratum: Experimental technique for direct measurement of interaction second virial coefficients

[J. Chem. Phys. 59, 709 (1973)]

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(1) The rhs of Eq. (9) should read $\rho_j(N_{AC} - 1)/\rho_m N_{AC}$.

(2) In Eqs. (13) and (15) the terms N_{A-1} and N_{AC-1} should be $(N_A - 1)$ and $(N_{AC} - 1)$, respectively.

(3) The outer parenthesis of Eq. (16) should be closed prior to the division mark rather than after the final P_j .

(4) The second terms of the rhs of Eq. (18) should be $[(2z - 1)/(z - 1)]^2 \sigma^2(z)/z^2$.

(5) Table I contains several erroneous values for the mixture with the Knobler *et al.* experiment. The correct values are

$$P_m = 4.1211 \text{ MPa}, \Delta P = -0.005531 \text{ MPa},$$

$$Z_m = 0.95101, \text{ and } B_m = -28.262 \times 10^{-6} \text{ m}^3/\text{mol}.$$

The first four errors above were typographical. The incorrect values in Table I do not affect the error analysis of the Knobler method as given by Eq. (20), and thus all the statements in the Example and the Conclusions sections are unchanged.