ERRATA

Short-Range Effects on the Pressure Shift for a Nitrogen Atom in a Rare-Gas Atmosphere, Supriya Ray and T. P. Das [Phys. Rev. 174, 32 (1968)].

There was an inadvertent error of a factor of 2 in Eq. (20). Thus the factor $16\pi/3$ on the right-hand side should be replaced by $8\pi/3$. As a consequence of this, changes have to be made at a number of places in the manuscript. The numbers 0.76 cps/mm Hg in the abstract should be replaced by 0.384. The entries corresponding to the ordinate in Fig. 1 have to be multiplied by a factor of $\frac{1}{2}$. In Eq. (26), the factor $16/3$ has to be replaced by $8/3$. The number on the right-hand side of Eq. (28) has to be reduced by a factor of 2. In the paragraph following Eq. (28), the number 12.5 Mc/sec has to be replaced by 6.25 Mc/sec. The three numbers in the last row of Table II have each to be multiplied by a factor of $\frac{1}{2}$. The entries corresponding to the ordinates of Fig. 2 have to be reduced by a factor of $\frac{1}{2}$. In Eqs. (45), (46), (47), (48), and (49) the right-hand sides should read 0.382, 0.384, 0.002, 0.011, and 0.392 respectively, all in units of cps/mm Hg. In addition to these errors, there were the following typographical errors: In Eq. (36) a negative sign has to be introduced in the coefficient on the right-hand side. In Table III the first sentence in the caption should read "Values of the terms in $\delta\text{Int}(R)/(4\pi)^{1/2}$." In Fig. 2 the curve V for $R^2e - V(R)/kT$ has an ordinate scale going from 10 at the bottom of the scale to 10^2 at the top, and should have been indicated on the right-hand side of the figure. The authors are grateful to Mr. B. K. Rao and Dr. D. Ikenberry for bringing these errors to their attention.

Hyperfine Pressure-Shift and van der Waals Interactions. I. Hydrogen-Helium System, Supriya Ray, J. D. Lyons, and T. P. Das [Phys. Rev. 174, 104 (1968)]. In the abstract in line 8, the temperature for the experimental value was omitted:

It is 50°C. In Eq. (53) for $V(R)$ the first line on the right-hand side should read:

$$V(R) = (4/R)(1 + 0.265R - 2.419R^2 + 2.616R^3 - 0.436R^4)e^{-2.48R}, \quad \text{for } 0.8 \leq R \leq 2.$$

In Table II the caption for the last column should read $R^2e - V(R)/kT$.

Hyperfine Pressure-Shift and van der Waals Interaction. II. Nitrogen-Helium System, J. D. Lyons, Supriya Ray, and T. P. Das [Phys. Rev. 174, 112 (1968)]. As a consequence of an error of factor 2 in the MP wave function calculations in Phys. Rev. 174, 32 (1968) (erratum above), a few corrections have to be made in the present paper. In Eq. (21), the number on the right-hand side should be replaced by 1787.3. In Fig. 1, the entries corresponding to the ordinate on the left-hand side have to be reduced by a factor of $\frac{1}{3}$; this factor of $\frac{1}{3}$ arises from a combination of the above-mentioned error and an additional error due to the omission of the effect of $1/J = \frac{2}{3}$ in Eq. (24). The right-hand sides of Eqs. (29) and (30) should be replaced by 0.07 and 0.46 cps/mm Hg respectively. In Table II the entries in the second column have to be reduced by a factor of $\frac{1}{3}$. The final result of this calculation for $(a_p)_{\text{theo}}$ on p. 117 is now 0.53 cps/mm Hg and is much closer to the experiment than the previously listed value. In the abstract, due to the above-mentioned corrections, the numbers on lines 8 and 9 should read 0.07 and 0.46 respectively, instead of 0.22 and 0.91. The authors are grateful to Mr. B. K. Rao and Dr. D. Ikenberry for bringing these errors to our attention.

Hydrodynamics and Time-Correlation Functions, James W. Dufty [Phys. Rev. 176, 398 (1968)]. It was neglected to note that the research reported was supported by the National Science Foundation.