Errata

Errata: Comparative Study of Potential Energy Functions for Diatomic Molecules

[Revs. Modern Phys. 29, 664 (1957)]

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ON page 670, Eq. (40) should read

$$\alpha_e=0.$$

In line 4, read "0" in place of "2."

On page 671, Linnett function, Eq. (55) should read

$$\alpha_e=\left[\frac{(m+1)(m-1)-t^2+3t}{3(m+1-t)}\right]\frac{6B_e^2}{\omega_e}.$$

Consequently, F values in Table II are changed as follows:

t	F
0	0.666
1	1.111
1.5	1.366
2	1.666
2.25	1.845
2.5	2.055
2.6	2.152
2.7	2.258
2.75	2.316
2.8	2.37
3.0	2.66

On page 672, Lippincott function, Eq. (61) should read

$$\alpha_e=0.$$

In line 24, delete "As (61) shows this appears to be in error."

On page 677, Table IX, correct F values are

Linnett $(8+3t-t^2)/3(4-t)$
Lippincott 0.

On page 679, Linnett function, change the discussion for α_e as follows:

"Too high at low Δ. Suitable for CO, N_2, NO, O_2."

Errata: Experimental Results on Charge-Changing Collisions of Hydrogen and Helium Atoms and Ions at Kinetic Energies above 0.2 kev

[Revs. Modern Phys. 30, 1137 (1958)]

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1138 In text, above Eq. (II-1), for "$d\sigma_{if}/d\theta$ would be a function of angle" read "$d\sigma_{if}/d\Omega$ would be a function of angle."

1139 In text, above Eq. (II-5) for "and exists into high vacuum" read "and exits into high vacuum."

1140 Equation (II-12) should read

$$F_i=F_{i\infty}+[P(z,i)\exp(\pi q)+N(z,i)\exp(-\pi q)]\times\exp(-\tfrac{1}{2}\pi\ \Sigma\,\sigma_{if}).$$

1141 Equation (II-28) should read

$$P(1,\bar{1})=\frac{s+q}{2qb}[F_{0\infty}(s-q)-bF_{\bar{1}\infty}].$$

Equation (II-29) should read

$$N(1,\bar{1})=\frac{s-q}{2qb}[F_{0\infty}(s+q)-bF_{\bar{1}\infty}].$$

Equation (II-31) should read: $dF_0/d_\pi=-(dF_1/d_\pi)=-F_{0\sigma 01}+F_{1\sigma 10}$.

1150 for "antilog 4.030–5" read "antilog (4.030–5)."

1155 Bottom line, left. Actually, Table V-6 shows that the largest observed $F_{\bar{1}\infty}$ for hydrogen is at 4 kev in argon gas.

1162 Table VI-6; for "σ_{11}" read "$\sigma_{1\bar{1}}$."

1164 Center, right, for "from Eqs. (V-1) and (V-2)" read "from equations in Sec. VA-3, page 1156."

Errata: Spin Waves

[Revs. Modern Phys. 30, 1 (1958)]

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IN Eq. (28), 0.1187 should be replaced by $\frac{1}{2}(0.1173)$.

In the third member of Eq. (32), 15/8 should be replaced by 15/32.

On the top of page 8, 0.96 $Nk/2S$ should be replaced by 0.96 $(2NkS)$.

In Eq. (97), a term $-NzJS$ should be added to the right-hand side.

In Eq. (120), 0.1187 should be replaced by $0.1173/(S_1-S_2)$ and $2JS_1S_2$ should be replaced by $4JS_1S_2$.

Below Eq. (121), $S_1S_2/S(S_1-S_2)$ should appear as twice this quantity, and $(g_1S_1-g_2S_2)\beta$ should appear multiplied by a factor $(\frac{1}{2})$.

Erratum: Dynamics of a Lattice Universe by the Schwarzschild-Cell Method

[Revs. Modern Phys. 29, 432 (1957)]

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WE are indebted to Professor G. C. McVittie for pointing out to us that the printed version of Eq. (3) omits a factor.[1] It should read

$$ds^2=[a(T)/a_0]^2\left[\frac{dr^2}{1-r^2/a_0^2}+r^2(d\theta^2+\sin^2\theta d\varphi^2)\right]-dT^2 \quad (3a)$$

$$=a^2(T)[du_1^2+du_2^2+du_3^2+du_4^2]-dT^2, \quad (3b)$$

with

$$u_1=\sin\chi\sin\theta\sin\varphi,$$
$$u_2=\sin\chi\sin\theta\cos\varphi,$$
$$u_3=\sin\chi\cos\theta,$$
$$u_4=\cos\chi,$$

and

$$r=a_0\sin\chi. \quad (6)$$

The subsequent calculations and the conclusions drawn from them about the dynamics of a lattice universe remain unchanged.

[1] R. C. Tolman, *Relativity, Cosmology and Thermodynamics* (Clarendon Press, Oxford, England, 1934), Eqs. (149.5) and (149.10).