

Errata

Hyperfine Structure Formulas for LS Coupling, R. E. TREES [Phys. Rev. **92**, 308 (1953)]. The sign of the right-hand side of Eqs. (45) and (47) should be $(-1)^{L-\beta-S'-2K_1}$, and in (48) the sign should be $(-1)^{J'-\beta-S-2K_1}$. I would like to thank J. M. Kennedy for bringing this to my attention.

Electrical Resistivity of the Ni-Pd Alloy System between 300°K and 730°K, A. I. SCHINDLER, R. J. SMITH, AND E. I. SALKOVITZ [Phys. Rev. **108**, 921 (1957)]. Curve number 4 of Fig. 4 was inadvertently

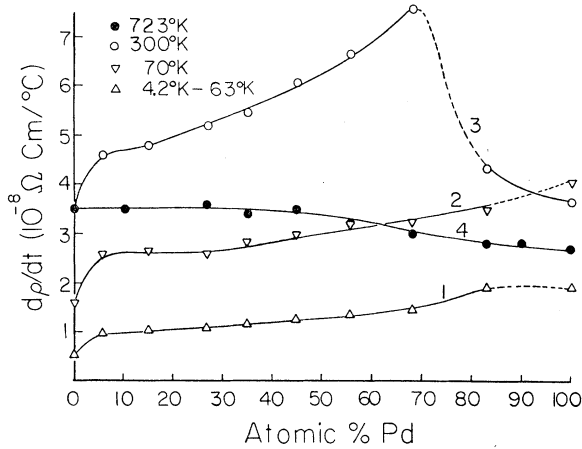


FIG. 4. $d\rho/dT$ vs composition for Ni-Pd alloys at various temperatures.

misplotted. The corrected figure appears below. None of the text is affected by this change.

Fierz Interference of the Fermi Interactions in Beta Decay, J. B. GERHART [Phys. Rev. **109**, 897 (1958)]. The definition of A on page 900 is printed incorrectly and should read

$$A = 2\pi^3(|C_S|^2 + |C_{S'}|^2 + |C_V|^2 + |C_{V'}|^2)^{-1} \ln 2.$$

Theory of the Stark Effect of the NO Molecule, MASATAKA MIZUSHIMA [Phys. Rev. **109**, 1557 (1958)]. The right-hand side of Eq. (19) should have a factor $(2J+1)/3$; the right-hand side of Eq. (21) should be multiplied by 2, and the term with $\sum_{J=3}^{\infty}$ in Eq. (22) should also be multiplied by 2. This correction gives $\frac{1}{3}$ instead of 0.314 in Eqs. (22) and (24). Thus, comparing (24) and (25), we obtain exactly

$$\mu = \mu_{\text{eff}}, \tag{E-1}$$

instead of Eq. (26). The conclusion of that paper that the result of Watson *et al.* is preferred to that

of Smyth *et al.* is still valid. The author thanks Professor J. H. Van Vleck who pointed out that the above Eq. (E-1) is expected to hold quite generally.

Decay Scheme of 50-Day Re^{184} , C. J. GALLAGHER, JR., D. STROMINGER, AND J. P. UNIK [Phys. Rev. **110**, 725 (1958)]. The first line of the Introduction should credit the discovery of Re^{184} to Fajans and Sullivan. Reference 1 should then be ^1K . Fajans and W. H. Sullivan, Phys. Rev. **58**, 276 (1940). On page 729, the upper equation is incorrect. The equation should read

$$\frac{ft(i \rightarrow f')}{ft(i \rightarrow f)} = \frac{\langle I_i L K_i K_f - K_i | I_i L I_f K_f \rangle^2}{\langle I_i L K_i K_f - K_i | I_i L I_f K_f \rangle^2}$$

Recoil Studies of High-Energy Fission of Bismuth and Tantalum, NORBERT T. PORILE AND NATHAN SUGARMAN [Phys. Rev. **107**, 1410 (1957)]. Equation (2') should be changed from

$$R = \frac{2W(F_F + F_B)[1 + \frac{1}{3}(b/a)]}{1 + \frac{1}{2}(b/a) + \eta^2[1 + \frac{2}{3}(b/a)]}$$

to

$$R = \frac{2W(F_F + F_B)[1 + \frac{1}{3}(b/a)]}{1 + \frac{1}{2}(b/a) + \eta^2}$$

Equation (2'') should be changed from

$$R = \frac{2W(F_F + F_B)[1 + \frac{2}{3}(b/a)]}{1 + \frac{1}{2}(b/a) + \eta^2[1 + \frac{1}{3}(b/a)]}$$

to

$$R = \frac{2W(F_F + F_B)[1 + \frac{2}{3}(b/a)]}{1 + \frac{1}{2}(b/a) + \eta^2[1 + (b/a)]}$$

These changes alter the values of R by less than 0.1% for typical values of b/a and η . This correction was kindly pointed out to us by Dr. Lester Winsberg of the Radiation Laboratory, University of California.

Nuclear Magnetic Relaxation of Three and Four Spin Molecules in a Liquid, P. S. HUBBARD [Phys. Rev. **109**, 1153 (1958)]. There is a misprint in the line before Eq. (3.12): S should be replaced by S_0 . In Eq. (3.18), Z_3 should be C_3 . The factor $\sin\theta$ occurring in Eqs. (3.23) and (3.26) should be incorporated in the definition of ρ , Eq. (3.22). Similarly, the factor $\sin\theta'$ occurring in Eqs. (3.25) and (3.26) should be incorporated in the definition of $\rho_c(\alpha, \tau)$, Eq. (3.24). The results (3.27)–(3.29) are unchanged. In Eq. (4.7), the 22 element of the square matrix was misprinted: it should be $-(1/9)[5 + 2(61)^{\frac{1}{2}}]$. The result quoted for the relaxation of four-spin molecules, Eq. (4.10), was

unfortunately incorrect; the correct expression is

$$M_z - M_{eq} = \frac{N\gamma^2 \hbar^2 H_0}{kTT_s} (T - T_s) \\ \times \left\{ \left(\frac{92 - 13(46)^{\frac{1}{2}}}{184} \right) \exp \left[-\frac{3}{40} [73 + 2(46)^{\frac{1}{2}}] \frac{t}{T_0} \right] \right. \\ \left. + \left(\frac{92 + 13(46)^{\frac{1}{2}}}{184} \right) \exp \left[-\frac{3}{40} [73 - 2(46)^{\frac{1}{2}}] \frac{t}{T_0} \right] \right\}. \quad (4.10)$$

In Sec. 5 there is an obvious misprint: two sentences and Eq. (5.2) have been printed twice.

Nuclear Moments of Ac²²⁷, MARK FRED, FRANK S. TOMKINS, AND WILLIAM F. MEGGERS [Phys. Rev. **98**, 1514 (1955)]. The derivation of the nuclear electric quadrupole moment has been found to be in error and the value should be $\sim +1.7 \times 10^{-24}$ cm² instead of $\sim -1.7 \times 10^{-24}$ cm². We are indebted to Professor K. Murakawa, University of Tokyo, for pointing out the source of the error.

Angular Distribution of Nuclear Reaction Products, G. R. SATCHLER [Phys. Rev. **104**, 1198 (1956)]. The last equation is printed erroneously. The coefficient of $T_1 T_1' / (T_1 + 2T_1')$ should be

$$[4 + P_2(\cos\theta)],$$

and the coefficient of $P_2(\cos\theta)$ in the last square bracket should be negative.

Radiative Capture of Alpha Particles to States of O¹⁸ and F¹⁸, W. R. PHILLIPS [Phys. Rev. **110**, 1408 (1958)]. This paper was inadvertently not referred to in the Analytic Subject Index of Vol. 110. It should appear in the category "Nuclear Reactions Induced by Alpha Particles."

Irreversible Statistical Mechanics of Incompressible Hydromagnetic Turbulence, ROBERT H. KRAICHNAN [Phys. Rev. **109**, 1407 (1958)]. Equation (3.12) is not correct in general, and consequently the cancellation, by symmetry, of higher-order contributions mentioned in reference 21 does not occur.