Errata

Method of Correlated Basis Functions, JOHN W. CLARK AND PAUL WESTHAUS [Phys. Rev. **141**, 833–857 (1966)].

(1) On p. 837, 2nd column, line 34, replace "up to" by "through".

(2) On p. 838, Eq. (II.4), insert the factor $\exp\{\beta[H_1(1)+H_1(2)+H_1(3)]\}$ at the end of the first line of the integrand employed in the definition of I_{ijk}.

(3) On p. 845, Eq. (III.7) must be modified to take account of the fact that the orbitals in which **p** differs from **m** and **n** need not occur in the first two places, i.e., need not be p_1 and p_2. However, the correct result is generated by H^{eff}.

(4) On p. 846, 2nd column, line 40, replace "$c_\kappa^\dagger$, c_κ" by "$a_\kappa^\dagger$, a_κ".

(5) On p. 847, replace line 1 by "where the U matrices are to be determined from the requirement that, at least to within a factor -1 (see below),".

(6) On p. 847, line 4, replace "$Q=1, \cdots 4$" by "$Q=2, 3, 4$".

(7) On p. 847, line 15, replace "$[\mathcal{Q}\delta_{\{\kappa\lambda\mu\nu\},\{\kappa'\lambda'\mu'\nu'\}}+(1-\delta_{\{\kappa\lambda\mu\nu\},\{\kappa'\lambda'\mu'\nu'\}})]$ by "$\mathcal{Q}(\kappa\lambda\mu\nu,\kappa'\lambda'\mu'\nu')$" alone. Explicit reference to $\mathcal{Q}(\kappa\lambda\mu\nu,\kappa'\lambda'\mu'\nu')$ may be eliminated and equivalent results obtained by the further replacement of $\mathcal{Q}(\kappa\lambda\mu\nu,\kappa'\lambda'\mu'\nu')$ with $(1-\delta_{\{\kappa,\lambda\},\{\kappa',\lambda'\}})\times(1-\delta_{\{\mu,\nu\},\{\mu',\nu'\}})$.

(8) On p. 847, in the last two sentences, replace "diagonal elements $\mathfrak{H}_{\mathbf{mm}}$; the step function . . . in the Appendix.]" by "matrix elements $\mathfrak{H}_{\mathbf{mn}}$ with **m** and **n** differing in less than four orbitals. [See the last of (II.7).]".

(9) On p. 848, 1st column, in the sentence beginning in line 38, replace "Thus . . . must attach" by "Then . . . obtain $H_{\mathbf{mn}}$ of Sec. III multiplied by". In this same sentence, replace "in Sec II . . . energy ordering." by "for the single-particle states in the Slater determinants to this energy ordering.".

(10) On p. 850, add this final paragraph to Sec. IV:

Indeed, for an infinite medium, $H_{\mathbf{mn}}$ and, manifestly, H^{eff} are *invariant as a whole* under the transformation from one translationally invariant V to another. This invariance, in fact, appears to hold *order by order in* ω. (The corresponding invariance of $\mathfrak{H}_{\mathbf{mn}}$ could be added to the list of invariance properties examined in the Appendix.) Of course, the component of H^{eff} that is selected as the unperturbed Hamiltonian in the perturbation calculation may well depend on V, so that successive approximations of physical quantities such as energy may not in practice possess this V invariance. At any rate, when in the following section we discuss the asset of the flexibility introduced into the method by the freedom in the choice of V, we are anticipating the extension of the present treatment to *finite systems*.

(11) On p. 852, replace the sentence beginning in the last main-text line of the 1st column by "However, the only contributions to E which appear immediately susceptible to practical evaluation are those labeled (0,0), (1,0), and (0,2).[68] (Note there is no first order perturbative correction to E in the Feshbach scheme.)".

Total Cross Sections and Angular Distributions of the $C^{12}(Li^6,p)O^{17}$, $C^{12}(Li^6,d)O^{16}$, and $C^{12}(Li^6,\alpha)N^{14}$ Reactions from 4.5 to 5.5 MeV, D. W. HEIKKINEN [Phys. Rev. **141**, 1007 (1966)]. Due to omission of a scale factor of $\frac{1}{10}$ the values of A_L/A_0 given in the paper are 10 times too large. This does not affect the quoted total cross sections or averaged cross sections in Table II.

I would like to thank T. G. Dzubay for finding this inconsistency.

Recoil-Free Absorption Hyperfine Spectra of the 90-keV Mixed Transition in Ru^{99}, O. C. KISTNER [Phys. Rev. **144**, 1022 (1966)]. Several misprints appear in the equations at the top of the right-hand column on p. 1026. The second and third equations should read:

$$I(\theta)_{\Delta m=\pm1}=\tfrac{3}{4}(1+\cos^2\theta)\,|C(J_11J_0;\,m_1,\mp1,m_0)|^2 \mp\tfrac{1}{2}(\sqrt{15})\cos\varphi(\cos^2\theta+\cos2\theta)\times C(J_11J_0;\,m_1,\mp1,m_0)\times C(J_12J_0;\,m_1,\mp1,m_0)\,|\delta| +(5/4)(\cos^2\theta+\cos^22\theta)\times|C(J_12J_0;\,m_1,\mp1,m_0)|^2\delta^2,$$

$$I(\theta)_{\Delta m=\pm2}=(5/4)(\sin^2\theta+\tfrac{1}{4}\sin^22\theta)\times|C(J_12J_0;\,m_1,\mp2,m_0)|^2\delta^2.$$

In the abstract, the two values given for g_1 should have a negative sign. (The sign is correctly given in the text.)