page 9.....eq. (1.54)... change to: $P_n |a_m\rangle = \delta_{mn} |a_m\rangle$

page 66.... eq. (3.92).... change to: $i\hbar\frac{dP_\alpha}{dt} = i\hbar\left[\left(\frac{d|\alpha\rangle}{dt}\right)\langle\alpha| + |\alpha\rangle\left(\frac{d\langle\alpha|}{dt}\right)\right] = [H, P_\alpha]$

page 66...two lines below (3.95).....change to: "There is actually no contradiction because ρ is not an Heisenberg operator...."

page 67.... line below (3.97).... change to "Multiply (3.96) by ϕ^* on the left and (3.97) by ϕ on the right"

page 94....eq. (4.181)....change to $\mathbf{L}^2 = \sum_{jk}(r_j p_k r_j p_k - r_j p_k r_k p_j)$

page 109...eq. (5.57)...change to: $a\sin\alpha e^{i\beta} - b\cos\alpha = b$

page 110..line above (5.61)....change to "For example, if we take $\alpha = \pi/2$ and $\beta = -\pi/2$, we obtain $|y-\rangle$

page 115...line after eq. (5.102)...change to: "If the states $|\alpha\rangle$ and $|\beta\rangle$ are orthonormal and complete, then......"

Page 118...Prob 5 second line...change to: "in terms of the ensemble averages $\langle S_i\rangle_{av}$ where...."

page 121...eq. (6.9)....change to: $H = \frac{\mathbf{p}^2}{2m} \to H = \frac{\left(\mathbf{p}-\frac{e}{c}\mathbf{A}\right)^2}{2m} - e\phi$

page 122...eq. (6.17)....change to: $\langle\alpha_G|\,\frac{e}{c}\mathbf{A}_G\,|\alpha_G\rangle \neq \langle\alpha|\,\frac{e}{c}\mathbf{A}\,|\alpha\rangle$

page 123...eq. (6.26)...change to: $i\hbar\frac{dx_i}{dt} = [x_i, H]$

page 127...line below (6.62)...change to: "Therefore, substituting $\mathbf{S} = (\hbar/2)\,\boldsymbol{\sigma}$,we find...."

page 127....eq. (6.63)„,change to : $H = \frac{\boldsymbol{\sigma}\cdot\left(\mathbf{p}-\frac{\mathbf{e}}{\mathbf{c}}\mathbf{A}\right)\boldsymbol{\sigma}\cdot\left(\mathbf{p}-\frac{e}{c}\mathbf{A}\right)}{2m} = \frac{1}{2m}\left(\mathbf{p}-\frac{e}{c}\mathbf{A}\right)^2 - \frac{e}{mc}\mathbf{S}\cdot\mathbf{B}$

page 127...eq. (6.64)...change to: $\boldsymbol{\mu}_e = \frac{e}{mc}\mathbf{S}$

page 127...eq. (6.65)...change to: $H = \frac{\mathbf{p}^2}{2m} - \frac{e}{2mc}\boldsymbol{\mu}\cdot\mathbf{B} + \frac{e^2}{2mc^2}\mathbf{A}^2$

page 129...eq. (6.73)...change to: $H' = -\frac{e}{mc}\mathbf{S}.\left[\frac{\mathbf{p}}{mc}\times\left(\frac{\mathbf{r}}{r}\frac{dV_c}{dr}\right)\right]$

page 129...eq. (6.75)...change to: $H = \frac{\mathbf{p}^2}{2m} - \frac{e}{2mc}\boldsymbol{\mu}\cdot\mathbf{B} + \frac{e}{m^2c^2}\frac{1}{r}\frac{dV_c}{dr}(\mathbf{L}\cdot\mathbf{S}) + \frac{e^2}{2mc^2}\mathbf{A}^2$

page 134....line below eq. (7.2)...change to "where $\mu_B = e/mc$....."

page 148...eq. (8.96)...change to $\Delta = a - 2b$

page 165...eq. (8.235)...change to: $\dfrac{d^2R_l}{d\rho^2} + \dfrac{2}{\rho}\dfrac{dR_l}{d\rho} + \left[\dfrac{\lambda}{\rho} - \dfrac{l(l+1)}{\rho^2} - \dfrac{1}{4}\right]R_l = 0$

page 166...eq. (8.249)...change to: $A_0 + A_1\rho + ... + A_\nu\rho^\nu + ... = 0$

page 174...eq. (9.5) second relation....change to: $P = -i\sqrt{\dfrac{m\omega\hbar}{2}}\left(a - \ a^\dagger\right)$

page 175...line after eq. (9.7)...change to "where we have made use of relation (9.3)"

page 218...eq. (12.81)....change to (the change is in the first term):

$-\frac{\hbar^2}{2m}\frac{\partial}{\partial x}\left[\psi^*\frac{\partial\psi}{\partial x} - \psi\frac{\partial\psi^*}{\partial x}\right] - \frac{\hbar^2}{2m}\frac{\partial}{\partial y}\left[\psi^*\frac{\partial\psi}{\partial y} - \psi\frac{\partial\psi^*}{\partial y}\right] + \frac{ie\hbar}{mc}B_0x\left[\psi^*\frac{\partial\psi}{\partial y} + \psi\frac{\partial\psi^*}{\partial y}\right] = i\hbar\frac{\partial}{\partial t}(\psi^*\psi)$

page 208...line after eq. (12.1)...change to "As we discussed in Chapter 6, to..."

page 229....line after eq. (13.51)....change to: "where we have written $\sqrt{D^2} = |D|$."....

page 241....eq. (13.161)....change to: $i\ddot{c}_2 = \left(\frac{c_2\gamma e^{i\delta t}}{i}\right)\gamma e^{-i\delta t} + \left(\frac{i\dot{c}_2 e^{i\delta t}}{\gamma}\right)\gamma\left(-i\delta\right)e^{-i\delta t}$

page 242...eq. (13.165)...change to: $c_2\left(t\right) = Ae^{\frac{i\left[-\delta+\sqrt{\delta^2+4\gamma^2}\right]t}{2}} + Be^{\frac{i\left[-\delta-\sqrt{\delta^2+4\gamma^2}\right]t}{2}}$

page 242...eq. (13.166)...change to: $c_2\left(t\right) = Ae^{-\frac{i\delta t}{2}}\left[e^{\frac{i\sqrt{\delta^2+4\gamma^2}t}{2}} - e^{\frac{-i\sqrt{\delta^2+4\gamma^2}t}{2}}\right]$

page 247...Prob.(6) last line...change to: "If a state $|\psi(t)\rangle$ at $t = 0$ is in the "spin down" state in the x-direction, $\left|\psi_{x-}(0)\right\rangle$, then determine the probablitity that at times $t. > 0$ it is in a state $\psi_{x+}(0)$"

page 252...eq. (14.9)...change to: $\omega_0 = -\frac{eB_0}{mc}$

page 263....eq. (15.11)...change to (change is in the second term on the right): $|\nu_1(0)\rangle = \cos\theta\,|\nu_e(0)\rangle + \sin\theta\,|\nu_\mu(0)\rangle$

page 278....two lines above (16.13) ...change to: "Since $\left|\psi_s^{(0)}\right\rangle$ are assumed to be......."

page 280...second line below eq. (16.28)...change to: "We notice that in the second order term, $E_s^{(2)}$, if the levels E_n^0 and E_s^0 are...."

page 285...eq. (16.61)....change to: $Y_{lm} \to (-1)^m Y_{lm}$

Page 286... eq (16.73).....change to: $\langle 0\,|zF|\,0\rangle = -\frac{ma_0}{\hbar^2}\left\langle 0\left|\left(\frac{r}{2}+a_0\right)z^2\right|0\right\rangle$

page 290...eq. (16.99)....change to

$$\begin{bmatrix} & 2S & 2P(m=0) & 2P(m=1) & 2P(m=-1) \\ 2S & 0 & -3eE_0a_0 & 0 & 0 \\ 2P(m=0) & -3eE_0a_0 & 0 & 0 & 0 \\ 2P(m=1) & 0 & 0 & 0 & 0 \\ 2P(m=-1) & 0 & 0 & 0 & 0 \end{bmatrix}$$

page 294...line below (17.12)...change to: " where $\omega_{mn} = \frac{E_m^{(0)}-E_n^{(0)}}{\hbar}$,and....."

page 295..line below (17.15)...change to "Substituting the series (17.13) in (17.12) and....."

page 295...line below (17.18)....change to: ".......for all values of t and (17.14) tells us....."

page 300...eq. (17.57).....change to: $w_{fi} = \int \lambda_{fi} dN_f = \int \lambda_{fi}\rho\left(E_f\right)dE_f$

page 308...line above (17.117)...change to: "Since Γ_{fi} equals....."

page 309...eq. (17.118)...change to : $c_i\left(t\right) = \frac{-i}{2\pi}\int\limits_{-\infty}^{\infty} d\omega\frac{e^{i\omega t}}{\omega+\frac{E_i'}{\hbar}-i\frac{\Gamma}{2}}$

page 321...eq. (18.24)...change to: $\sigma_{abs} = 4\pi^2\hbar\omega_{ni}\alpha\left|\langle n\,|x|\,i\rangle\right|^2\delta\left(E_n - E_i - \hbar\omega\right)$

page 321...eq. (18.25)...change to: $\sum\limits_f\int\sigma_{abs}d\omega = \frac{4\pi^2\alpha}{\hbar}\sum\limits_f\left(E_f - E_i\right)\left|\langle f\,|x|\,i\rangle\right|^2$

page 322...eq. (18.27)...change to: $\sum\limits_f\int\sigma_{abs}d\omega = \frac{2\pi^2e^2}{mc}$

page 324...eq. (18.44)..change to (see the factor $\sqrt{\pi}$):... $\frac{i\hbar}{\sqrt{V}}\int d^3r\boldsymbol{\epsilon}\cdot\left[\boldsymbol{\nabla}\left(e^{-i\mathbf{q}\cdot\mathbf{r}}\right)\right]\frac{1}{\sqrt{\pi}}\left(\frac{Z}{a_o}\right)^{\frac{3}{2}}e^{-\frac{Zr}{a_o}}$

page 331...line above (18.88)...change to: "From (18.86) we obtain"

page 344...line before eq. (19.19)...change to: " The relation (19.14)...."

page 346...eq. (19.40)...change to: $R = \frac{\left|Ae^{2i\delta}\right|^2}{|A|^2} = 1$

page 349...eq. (19.66)...change to: $A' = -\left(\sin(\alpha a) + i\frac{\alpha}{k}\cos(\alpha a)\right)\frac{F'}{2}$

page 349...eq. (19.67)...change to: $B' = -\left(\sin(\alpha a) - i\frac{\alpha}{k}\cos(\alpha a)\right)\frac{F'}{2}$

page 350...eq, (19.73)...change to $\tan(\delta') = \frac{k}{\alpha}\tan(\alpha a)$

page 351...eq. (19.83)...change to: $\alpha\cot(\alpha a) = -k\tan(ka)$

page 360....line above (20.18)...change to: "If we express $|\phi\rangle$ as an expansion given in (20.8) and insert it in (20.17) then...."

page 361...eq. (20.30) (see the last factor)..change to: $G_0^{(+)}(\mathbf{r},\mathbf{r}') = \int d^3k' \int d^3k'' \langle \mathbf{r}\,|\phi_0(\mathbf{k}')\rangle\, \langle \phi_0(\mathbf{k}')\left| \frac{1}{\frac{\hbar^2 k^2}{2m} - H_0 -\right.$

page 364...eq. (20.52)...change to: $q^2 = |\mathbf{k}_f|^2 + |\mathbf{k}_i|^2 - 2\,|\mathbf{k}_f|\,|\mathbf{k}_i|\cos\theta$

page 373....eq. (20.124)....change to: $\left\langle \phi^{(+)} \left| VG_0^{\dagger}V \right| \phi^{(+)} \right\rangle = \left\langle \phi^{(+)} \left| V \left(\frac{1}{E-H_0-i\epsilon}\right) V \right| \phi^{(+)} \right\rangle$

page 373....eq. (20.125)...change to: $\frac{1}{E-H_0-i\epsilon} = \left[P\left(\frac{1}{E-H_0}\right) + i\pi\delta\left(E - H_0\right)\right]$

page 379...eq. (20.176)....change to: $\int_{-\infty}^{\infty} dt' e^{i(E_f-E_i)t'/\hbar} = 2\pi\hbar\delta(E_f - E_i)$

page 450...eq. (24.2)....change to: $\frac{d^2u}{dx^2} + \frac{2m}{\hbar^2}(E - V(x)u = 0$

page 450...eq. (24.6)...change to: $\frac{d^2u}{dx^2} + k^2(x)u = 0$

page 455...eq. (24.40)...change to: $\int\limits_{x_1}^{x_2} dx \left[\frac{2m}{\hbar^2}(E - V(x))\right]^{\frac{1}{2}} = \left(n + \frac{1}{2}\right)\pi$

page 504...eq. (27.20)...change to: $\langle n; l.m|\,[L_z,H]\,|n; l.m'\rangle = (m-m')\,\langle n; l.m|\, n; l.m'\rangle E_n = 0$

page 518...eqs. (28.5) and (28.6)...change to :

$$\begin{aligned} \mathbf{J}^2 &= (\mathbf{J}_1 + \mathbf{J}_2)^2 = \mathbf{J}_1^2 + \mathbf{J}_2^2 + 2\mathbf{J}_1 \cdot \mathbf{J}_2 \\ &= \mathbf{J}_1^2 + \mathbf{J}_2^2 + J_{1+}\ J + J_{1-}\ J_{2+} + 2J_{1z}J_{2z} \end{aligned}$$