Introduction to Quantum Mechanics, 2nd ed.
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Corrections to the 14th Printing
(August 1, 2014)

- Page 138, Table 4.2, caption: $P_l^m(\cos\theta) \to |P_l^m(\cos\theta)|$.
- Page 150, line 4: 1924 → 1926.
- Page 196, Equation 4.199, insert (after a space) before period: $(m \geq 0)$.
- Page 229. Problem 5.18(b): remove "There is an exception:" and change "$\psi(x) = 0$." to "$\psi(x) = 0/0$ (indeterminate)."
- Page 247, last equation: $n = 1 \to n = 0$.
- Page 319, Problem 8.1, line 2: insert comma after V_0.
- Page 367, Equation 9.97, bottom line: $\frac{l}{2l-1} \to \frac{l}{2l+1}$.
- Page 367, Problem 9.22, add at end:

  You may find useful the following recursion formulas (which hold for $m \geq 0$):

  $$(2l+1)xP_l^m(x) = (l+m)P_{l-1}^m(x) + (l-m+1)P_{l+1}^m(x) \quad [9.99]$$

  $$(2l+1)\sqrt{1-x^2}\,P_l^m(x) = P_{l+1}^{m+1}(x) - P_{l-1}^{m+1}(x) \quad [9.100]$$

  (G. B. Arfken and H. J. Weber, "Mathematical Methods for Physicists, 5th ed.", Academic Press, San Diego, p. 774), and the orthogonality relation (which follows from Eq. 4.33):

  $$\int_{-1}^{1} P_{l'}^m(x)P_l^m(x)\,dx = \frac{2}{(2l+1)}\frac{(l+|m|)!}{(l-|m|)!}. \quad [9.101]$$

- Page 401, Table 11.1, last term in $h_2^{(2)}$: $+\frac{i}{x} \to -\frac{i}{x}$.
- Page 408, Problem 11.7, line 3: $\infty \to 0$.
- Page 429, lines 11 and 12: "electron" → "positron".
- Page 459, under "associated Legendre function": add ", 367".
- Page 466, under "recursion formula": add ",196, 367".