

Introduction to Quantum Mechanics, 3rd edition  
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New Errata, January 14, 2020

- Page 24, Problem 1.18(b), line 4: “is 3K” → “is at least 3K”.
- Pages 136 and 137, equations (4.31) and (4.33): the upper limits on the integrals should be  $2\pi$  and  $\pi$ , respectively, not  $\pi$  and  $2\pi$ .
- Page 157, line 5: remove “)” after “important”.
- Page 179: in the first (unnumbered) displayed equation,  
 $|21\rangle|1-1\rangle \rightarrow |211-1\rangle, \quad |20\rangle|10\rangle \rightarrow |2100\rangle, \quad |2-1\rangle|11\rangle \rightarrow |21-11\rangle,$
- Page 205, Problem 5.6, line 2: 2.28 → 2.31.
- Page 285, last line of footnote 5: “Delgarno” → “Dalgarno”.
- Page 292, Example 7.4, line 4 of “Solution”: “stats” → “states”.
- Page 308, line after (7.85): second  $\langle L_x \rangle \rightarrow \langle L_y \rangle$ .
- Page 361, changes to Figure 9.6: (a) erase “ $\log_{10}$ ” in the label of the vertical axis, leaving just “ $\tau_{1/2}$  [years]”; (b) change the numbers on the vertical axis from -8, -4, 0, 4, 8, 12 to  $10^{-8}$ ,  $10^{-4}$ , 1,  $10^4$ ,  $10^8$ ,  $10^{12}$ ; (c) modify the caption to read “Graph of the (base 10) logarithm of the half-life ( $\tau_{1/2} = \tau \ln 2$ ) versus  $-1/\sqrt{E}$ , where ...”.
- Page 375, add

**Problem 9.21** Use Gamow’s formula (9.29) to predict the slopes of the graphs in Figure 9.6, and compare what you measure on the figure itself.

- Page 423, footnote 24, 2 lines above the box: “ $\omega = 0$  drop” → “ $\omega = 0$  and drop”.
- Page 425, line before (11.87): erase the prime on  $\mathbf{r}$ .
- Page 425, Problem 11.17(a): replace the answer by

$$\left[ \text{Answer: } R_{i \rightarrow d\Omega} = 256 \alpha \frac{\epsilon_0 E_0^2 c}{2 \hbar \omega} \frac{k^3 a^5}{[1 + (ka)^2]^5} \cos^2 \theta d\Omega. \right]$$

- Page 428, line 5 of text: erase the first “subtle”.

- Page 438, Problem 11.30: at the end, add

“[One can in fact show that the two forms of the perturbation correspond to different gauge choices. See Claude Cohen-Tannoudji, Bernard Diu, and Franck Laloë, *Quantum Mechanics*, Wiley, New York (1977), Vol. 2, Complement AXIII.]”

- Page 490: add “Laporte’s rule 247, 262, 412”.