

Erratum: Atomic Photoelectric Effect above 10 keV [Rev. Mod. Phys. 45, 273 (1973)]

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Please note the following corrections:

Page 274: Line 12 (from the bottom) of the right-hand column should read "... that shapes of angular distributions."

Page 278: Line 11 (from the bottom) of the right-hand column: " $A^{\text{rad}}(x)$ " should read " $(\gamma_\mu A^\mu)^{\text{rad}}(x)$ ".

Page 280: The first equation of Eqs. (2.2.8) should read " $\zeta_1 = \zeta \cdot (\mathbf{y} \times \mathbf{p}) / |\mathbf{y} \times \mathbf{p}|$," i.e., ζ not ξ .

Page 281: Line 31 of the right-hand column should read "... the order a correction ..."

Page 282: Line 12 (from the bottom) of the right-hand column should read "... Hence, shapes of angular distributions ..."

Page 283: Line 6 of the left-hand column should read "Secs. 2.3 and 4.4 ..." In Eq. (3.1.2) " r_i " should read " r_1 ".

Page 284: In Eq. (3.1.5), " $u_1(r_2)$ " should read " $u_i(r_2)$ ".

Page 291: In Eqs. (4.2.22), " $[(E+1)^{1/2}/2E]$ " and " $[(E-1)^{1/2}/2E]$ " should read " $[(E+1)/2E]^{1/2}$ " and " $[(E-1)/2E]^{1/2}$ ", respectively.

Page 296: In Eqs. (5.1.8), " $J=1$ " should read " $n=1$ ".

Page 297: Line 7 (from the bottom) of the left-hand column should read "... Eqs. (2.2.5), (5.1.9), (2.2.16) ..."

Page 298: Line 16 of the left-hand column: " $C(\Delta\Delta n; 1, -1)$ " should read " $C(\Delta\Delta n; 1, -1)$ ".

Line 20 (from the bottom) of the right-hand column should read "... Eq. (4.2.20) ..."

Page 300: Line 7 and 8 (from the bottom) of the left-hand column should read "... electron since it leaves a ...".

Page 301: Line 16 of the left-hand column should read "... $\delta(\rho)$...".

Line 4 (from the bottom) of the right-hand column should read "... Clebsch-Gordan ..."

Page 304: Line 27 (from the bottom) of the left-hand column, "Sauter, 1931" should read "Sauter, 1931a, b".

Page 308: The correct Table 6.7 should read as follows:

TABLE 6.7. Cross sections (in barns/atom) of various atomic models for the M_{IV} - Q_I subshells of uranium and the ratios σ_a/σ_M .

Z=92	HFS		HFS2/3		TFC	
	3.5793 keV	4.0000 keV	3.5793 keV	4.0000 keV	3.5793 keV	4.0000 keV
M_{IV}	0.	...	0.	151 762.	0.	149 936.
M_V	285 290.	...	284 056.	208 458.	247 847.	205 036.
M	2.8529×10^6	3.6674×10^6	2.8406×10^6	3.6022×10^6	2.4785×10^6	3.5497×10^6
N_I	...	...	8 589.	7 287.	8 659.	7 310.
N_{II}	...	...	10 797.	9 324.	10 315.	8 918.
N_{III}	...	...	27 622.	22 684.	27 445.	22 550.
N_{IV}	...	...	32 222.	25 103.	32 266.	25 238.
N_V	...	...	44 337.	34 318.	44 903.	34 767.
N_{VI}	...	...	18 531.	12 588.	16 203.	11 046.
N_{VII}	...	...	22 957.	15 571.	20 138.	13 683.
N	...	...	1.6506×10^6	1.2688×10^6	1.5993×10^6	1.2351×10^6
O_I	...	...	2 503.	2 087.	2 943.	2 440.
O_{II}	...	...	2 877.	2 433.	3 327.	2 811.
O_{III}	...	...	6 743.	5 492.	8 141.	6 625.
O_{IV}	...	...	5 971.	4 657.	7 928.	6 192.
O_V	...	...	8 120.	6 280.	10 911.	8 445.
O_{VI}	...	...	710.	490.	1 500.	1 040.

TABLE 6.7 (Continued)

$Z=92$ k	HFS		HFS2/3		TFC	
	3.5793 keV	4.0000 keV	3.5793 keV	4.0000 keV	3.5793 keV	4.0000 keV
O	...	...	0.2693×10^6	0.2144×10^6	0.3475×10^6	0.2755×10^6
P_I	...	...	517.8	429.7	701.8	579.3
P_{II}	...	...	500.7	421.6	663.9	557.9
P_{III}	...	...	1 057.6	860.2	1 274.4	1 034.6
P_{IV}	...	...	~200.	~150.	~250.	~200.
P	...	...	0.0228×10^6	0.0216×10^6	0.0339×10^6	0.0237×10^6
Q_I	...	...	~50.	~40.	~100.	~100.
σ_a	4.8538×10^6	5.2134×10^6	4.7838×10^6	5.1045×10^6	4.456×10^6	5.085×10^6
σ_a/σ_M	1.701	1.421	1.684	1.417	1.798	1.433

Page 311: In Eq. (6.3.1), " $1-c(a, k)(a/k)$ " should read " $1+c(a, k)(a/k)$ ".

In Tables 6.10 and 6.11, "(SI Tables/this work)" should read "SI Tables/this work—1.0".

Line 7 (from the bottom) of the right-hand column should read "... Tables 6.3–6.4 ..."

Page 312: In Table 6.12, "(SI Tables/this work)" should read "SI Tables/this work—1.0".

Page 314: Table 6.14, Column 4: " 79.1 ± 7.0 , 31.6 ± 3.5 , and 0.93 ± 0.03 " should read " $79. \pm 17.$, $32. \pm 11.$, and 0.93 ± 0.07 ", respectively; Column 5: " 6.020 , 7.670 , and 12.23 " should read " 4.849 , 6.171 , and 14.91 ", respectively.

Page 315: Table 6.14, Column 4: " 76.5 ± 4.6 , 1.02 ± 0.6 , and 10.2 ± 0.6 " should read " 49.2 ± 3.0 , 10.2 ± 0.6 , and 7.65 ± 0.46 ", respectively; Column 6: The third reference to experiment for the case with $Z=50$ should read " g ". In the last line, "Rao" should read "Raja Rao".

Page 316: Table 6.15, Column 4: " 3.70 ± 0.27 , 3.85 ± 0.30 , 4.35 ± 0.30 , and 7.2 ± 1.0 " should read

" 3.7 ± 0.2 , 3.9 ± 0.3 , 4.3 , and 7.1 ", respectively; Column 5: " 2.874 " should read " 2.888 ".

Page 321: Line 24 should read "Though not ..."

Page 322: Line 19 (from the bottom) of the left-hand column "were" should read "where";

Line 17 (from the bottom) of the left-hand column "Table 6.12" should read "Table 6.13";

Line 13 (from the bottom) of the left-hand column "Table 6.16" should read "Table 6.17".

Page 324: Line 14 of the left-hand column "272" should read "393"; Line 13 (from the bottom) of the left-hand column "Phys. Rev. A 136" should read "Phys. Rev. 136";

Line 26 and Line 67 of the right-hand column, "Molière and 323" should read "Molière and 223", respectively.

Page 325: The authors of the three references for Rao, V. V. *et al.* should read

"Visweswara Rao, V., and ...;

Narasimha Rao, B. V., and ...;

Raja Rao, M., ..."; respectively.