

TABLE 3.4

Collision strengths for p^2 and p^4 ions

Ion	$\Omega(^3P, ^1D)$	$\Omega(^3P, ^1S)$	$\Omega(^1D, ^1S)$	$\Omega(^3P_0, ^3P_1)$	$\Omega(^3P_0, ^3P_2)$	$\Omega(^3P_1, ^3P_2)$	$\Omega(^3P, ^5S)$
N ⁺	2.68	0.35	0.41	0.40	0.28	1.13	1.27
O ⁺²	2.17	0.28	0.62	0.54	0.27	1.29	1.18
Ne ⁺⁴	1.78	0.25	0.52	0.24	0.12	0.58	1.51
Ne ⁺²	1.65	0.17	0.23	0.35	0.31	1.13	—
S ⁺²	8.39	1.19	1.88	2.64	1.11	5.79	—
Ar ⁺⁴	3.72	1.18	1.25	0.26	0.32	1.04	—
Ar ⁺²	4.74	0.68	0.82	1.18	0.53	2.24	—

TABLE 3.5

Collision strengths for p^3 ions

Ion	$\Omega(^4S, ^2D)$	$\Omega(^4S, ^2P)$	$\Omega(^2D_{3/2}, ^2D_{5/2})$	$\Omega(^2D_{3/2}, ^2P_{1/2})$
O ⁺	1.34	0.40	1.17	0.28
Ne ⁺³	1.40	0.47	1.36	0.34
S ⁺	6.98	2.28	7.59	1.52
Ar ⁺³	3.24	0.44	6.13	1.67

Ion	$\Omega(^2D_{3/2}, ^2P_{3/2})$	$\Omega(^2D_{5/2}, ^2P_{1/2})$	$\Omega(^2D_{5/2}, ^2P_{3/2})$	$\Omega(^2P_{1/2}, ^2P_{3/2})$
O ⁺	0.41	0.30	0.73	0.29
Ne ⁺³	0.51	0.37	0.90	0.34
S ⁺	3.38	2.56	4.79	2.38
Ar ⁺³	2.47	1.79	4.44	2.33