

CONTENTS—VOLUME I

PREFACE	xiii
INTRODUCTION	xv
TABLE OF ISOTOPES CD-ROM	xxiii

TABLE OF ISOTOPES DATA. MASS NUMBER: REFERENCE; EVALUATOR(S)

A=1: PR D50, 1173(1994); Particle Data Group	1
A=2: R.B. Firestone	1
A=3: NP A474, 1(1987); D.R. Tilley, H.R. Weller, and H. Hasan	1
A=4: NP A206, 1(1973), NP A541, 1(1992)(Update); D.R. Tilley, H.R. Weller,	2
A=5: NP A490, 1(1988); F. Ajzenberg-Selove	2
A=6: NP A490, 1(1988); F. Ajzenberg-Selove	3
A=7: NP A490, 1(1988); F. Ajzenberg-Selove	3
A=8: NP A490, 1(1988); F. Ajzenberg-Selove	4
A=9: NP A490, 1(1988); F. Ajzenberg-Selove	5
A=10: NP A490, 1(1988); F. Ajzenberg-Selove	7
A=11: NP A433, 1(1985), NP A506, 1(1990)(Update); F. Ajzenberg-Selove	8
A=12: NP A433, 43(1985), NP A506, 1(1990)(Update); F. Ajzenberg-Selove	10
A=13: NP A449, 1(1986), NP A523, 1(1991)(Update); F. Ajzenberg-Selove	12
A=14: NP A449, 1(1986), NP A523, 1(1991)(Update); F. Ajzenberg-Selove	14
A=15: NP A449, 1(1986), NP A523, 1(1991)(Update); F. Ajzenberg-Selove	16
A=16: NP A564, 1(1993); D.R. Tilley, H.R. Weller,	20
A=17: NP A564, 1(1993); D.R. Tilley and H.R. Weller	23
A=18: NP A475, 1(1987); F. Ajzenberg-Selove	26
A=19: NP A475, 1(1987); F. Ajzenberg-Selove	29
A=20: NP A475, 1(1987); F. Ajzenberg-Selove	34
A=21: NP A521, 1(1990); P.M. Endt	38
A=22: NP A521, 1(1990); P.M. Endt	42
A=23: NP A521, 1(1990); P.M. Endt	45
A=24: NP A521, 1(1990); P.M. Endt	49
A=25: NP A521, 1(1990); P.M. Endt	55
A=26: NP A521, 1(1990); P.M. Endt	59
A=27: NP A521, 1(1990); P.M. Endt	65
A=28: NP A521, 1(1990); P.M. Endt	70
A=29: NP A521, 1(1990); P.M. Endt	76
A=30: NP A521, 1(1990); P.M. Endt	82
A=31: NP A521, 1(1990); P.M. Endt	88
A=32: NP A521, 1(1990); P.M. Endt	92
A=33: NP A521, 1(1990); P.M. Endt	98
A=34: NP A521, 1(1990); P.M. Endt	103
A=35: NP A521, 1(1990); P.M. Endt	108
A=36: NP A521, 1(1990); P.M. Endt	113
A=37: NP A521, 1(1990); P.M. Endt	118
A=38: NP A521, 1(1990); P.M. Endt	123
A=39: NP A521, 1(1990); P.M. Endt	128
A=40: NP A521, 1(1990); P.M. Endt	131
A=41: NP A521, 1(1990); P.M. Endt	138
A=42: NP A521, 1(1990); P.M. Endt	144
A=43: NP A521, 1(1990); P.M. Endt	149

A=44:	NP A521, 1(1990); P.M. Endt	155
A=45:	NDS 40, 149 (1983), NDS 65, 1 (1992)(Update); T.W. Burrows	161
A=46:	NDS 49, 237(1986), NDS 68, 271(1993)(Update); L.K. Peker	168
A=47:	NDS 48, 1(1986); T.W. Burrows	174
A=48:	NDS 45, 557(1985), NDS 68, 1(1993)(Update); T.W. Burrows	181
A=49:	NDS 48, 569(1986); T.W. Burrows	190
A=50:	NDS 42, 369 (1984), NDS 61, 1 (1990)(Update); T.W. Burrows	198
A=51:	NDS 48, 111 (1986), NDS 63, 229 (1991)(Update); Chunmei Zhou	204
A=52:	NDS 58, 677(1989); Junde Huo, Dailing Hu, Huibin Sun, Janming You, and Baohua Hu	213
A=53:	NDS 43, 481(1984), NDS 61, 47(1990)(Update); Junde Huo and Dailing Hu	219
A=54:	NDS 50, 255(1987), NDS 68, 887(1993)(Update); Junde Huo, Huibin Sun, Weizhong Zhao, and Qing Zhou	225
A=55:	NDS 44, 463(1985), NDS 64, 723(1991)(Update); Junde Huo	232
A=56:	NDS 51, 1(1987), NDS 67, 523(1992)(Update); Junde Huo	244
A=57:	NDS 47, 1(1986), NDS 67, 195(1992)(Update); M.R. Bhat	250
A=58:	NDS 42, 457(1984), NDS 61, 189(1990)(Update); L.K. Peker	257
A=59:	NDS 39, 641(1983), NDS 69, 733(1993)(Update); C.M. Baglin	264
A=60:	NDS 48, 251(1986); P. Andersson, L.P. Ekström, and J. Lyttkens	274
A=61:	NDS 38, 463(1983), NDS 67, 271(1992)(Update); Chunmei Zhou	281
A=62:	NDS 60, 337(1990); M.M. King	287
A=63:	NDS 28, 559(1979), NDS 64, 815(1991)(Update); M.M. King	293
A=64:	NDS 28, 179(1979), NDS 62, 603(1991)(Update); B. Singh	299
A=65:	NDS 47, 135(1986), NDS 69, 209(1993)(Update); M.R. Bhat	306
A=66:	NDS 39, 1(1983), NDS 61, 461(1990)(Update); M.R. Bhat	313
A=67:	NDS 39, 741(1983), NDS 64, 875(1991)(Update); M.R. Bhat	321
A=68:	NDS 55, 1(1988); M.R. Bhat	327
A=69:	NDS 58, 1(1989); M.R. Bhat	332
A=70:	NDS 51, 95(1987), NDS 68, 117(1993)(Update); M.R. Bhat	340
A=71:	NDS 53, 1(1988), NDS 68, 579(1993)(Update); M.R. Bhat	346
A=72:	NDS 56, 1(1989); M.M. King	355
A=73:	NDS 51, 161(1987), NDS 69, 857(1993)(Update); M.M. King and W.-T. Chou	362
A=74:	NDS 51, 225(1987); B. Singh and D.A. Viggars	371
A=75:	NDS 60, 735(1990); A.R. Farhan and S. Rab	383
A=76:	NDS 42, 233(1984), NDS 74, 63(1995)(Update); B. Singh and D.A. Viggars	394
A=77:	NDS 57, 223(1989); A.R. Farhan, S. Rab, and B. Singh	406
A=78:	NDS 33, 189(1981), NDS 63, 1(1991)(Update); S. Rab	421
A=79:	NDS 37, 393(1982), NDS 70, 437(1993)(Update); B. Singh	434
A=80:	NDS 36, 127(1982), NDS 66, 623(1992)(Update); B. Singh	445
A=81:	NDS 46, 487(1985), NDS 69, 267 (1993)(Update); C.M. Baglin	454
A=82:	NDS 50, 1(1987); H.-W. Müller	469
A=83:	NDS 49, 579 (1986), NDS 66, 281(1992)(Update); E. Browne	476
A=84:	NDS 56, 551(1989); H.-W. Müller	491
A=85:	NDS 30, 501 (1980), NDS 62, 271(1991)(Update); H. Sievers	497
A=86:	NDS 54, 527(1988); H.-W Müller and J.W. Tepel	507
A=87:	NDS 62, 327(1991); H. Sievers	514
A=88:	NDS 54, 1(1988); H.-W. Müller	529
A=89:	NDS 58, 351(1989); H. Sievers	541
A=90:	NDS 67, 579(1992); L.P. Ekström and J. Lyttkens-Linden	557
A=91:	NDS 31, 181(1980), NDS 60, 835(1990)(Update); H.-W. Müller	570
A=92:	NDS 66, 347(1992) (revised 1994); C.M. Baglin	584
A=93:	NDS 54, 99(1988), NDS 70, 1(1993)(Update); C.M. Baglin	594
A=94:	NDS 44, 277(1985), NDS 66, 1(1992)(Update); J.K. Tuli	615
A=95:	NDS 38, 1(1983), NDS 68, 635(1993)(Update); .W. Burrows	627
A=96:	NDS 35, 281(1982), NDS 68, 165(1993)(Update); L.K. Peker	643
A=97:	NDS 46, 607(1985), NDS 70, 85(1993)(Update); A. Artna-Cohen	657
A=98:	NDS 39, 467(1983), NDS 67, 693(1992)(Update); B. Singh	672
A=99:	NDS 48, 663(1986) (revised 1992); L.K. Peker	688
A=100:	NDS 60, 1(1990); B. Singh and J.A. Szucs	705
A=101:	NDS 45, 701 (1985), NDS 63, 305(1991)(Update) (revised 1993); J. Blachot	719
A=102:	NDS 35, 443(1982), NDS 63, 373(1991)(Update); D. De Frenne and E. Jacobs	740
A=103:	NDS 45, 363(1985), NDS 68, 311(1993)(Update); J. Blachot	750

A=104:	NDS 41, 325(1984), NDS 64, 1(1991)(Update) (revised 1993); J. Blachot	767
A=105:	NDS 47, 261(1986), NDS 68, 935(1993)(Update); D. De Frenne and E. Jacobs	782
A=106:	NDS 53, 73(1988), NDS 72, 1(1994)(Update); D. De Frenne and E. Jacobs	802
A=107:	NDS 62, 709(1991) (revised 1993); J. Blachot	815
A=108:	NDS 37, 289(1982), NDS 62, 803(1991)(Update) (revised 1993); J. Blachot	830
A=109:	NDS 41, 111(1984), NDS 64, 913(1991)(Update) (revised 1993); J. Blachot	840
A=110:	NDS 38, 545(1983), NDS 67, 809(1992)(Update); D. De Frenne and E. Jacobs	857
A=111:	NDS 27, 453(1979), NDS 60, 889(1990)(Update) (revised 1992); J. Blachot and F. Haas	869
A=112:	NDS 57, 443(1989); D. De Frenne, E. Jacobs, and M. Verboven	880
A=113:	NDS 33, 1(1981), NDS 59, 729(1990)(Update) (revised 1993); J. Blachot	888
A=114:	NDS 60, 139(1990) (revised 1992); J. Blachot	897
A=115:	NDS 52, 565(1987), NDS 67, 1(1992)(Update); J. Blachot and G. Marguier	908
A=116:	NDS 32, 287(1981), NDS 59, 333(1990)(Update) (revised 1991); J. Blachot and G. Marguier	918
A=117:	NDS 50, 63(1987), NDS 66, 451(1992)(Update) (revised 1993); J. Blachot and G. Marguier	927
A=118:	NDS 51, 329(1987) (revised 1993); K. Kitao	941
A=119:	NDS 67, 327(1992); K. Kitao, M. Kanbe, and K. Ogawa	954
A=120:	NDS 52, 641(1987); A. Hashizume, Y. Tendow, and M. Ohshima	971
A=121:	NDS 64, 323(1991); T. Tamura, H. Iimura, K. Miyano, and S. Ohya	981
A=122:	NDS 49, 315(1986) (revised 1992); T. Tamura	1004
A=123:	NDS 70, 531(1993); S. Ohya and T. Tamura	1016
A=124:	NDS 41, 413(1984); T. Tamura, K. Miyano, and S. Ohya	1031
A=125:	NDS 70, 217(1993); J. Katakura, M. Oshima, K. Kitao and H. Iimura	1041
A=126:	NDS 36, 227(1982), NDS 69, 429(1993)(Update); K. Miyano	1055
A=127:	NDS 35, 181(1982) (revised 1993); K. Kitao and M. Oshima	1069
A=128:	NDS 38, 191(1983) (revised 1993); K. M. Kanbe	1090
A=129:	NDS 39, 551(1983) (revised 1992); Y. Tendow	1105
A=130:	NDS 58, 765(1989); Yu.V. Sergeenkov	1124
A=131:	NDS 72, 487(1993); Yu.V. Sergeenkov, Yu.L. Khazov, T.W. Burrows, and M.R. Bhat	1140
A=132:	NDS 65, 277(1992); Yu.V. Sergeenkov	1165
A=133:	NDS 49, 639(1986); Yu.V. Sergeenkov and V.M. Sigalov	1180
A=134:	NDS 34, 475(1981); Yu.V. Sergeenkov and V.M. Sigalov	1203
A=135:	NDS 52, 205(1987); Yu.V. Sergeenkov	1214
A=136:	NDS 52, 273(1987), NDS 71, 1(1994)(Update); J.K. Tuli	1226
A=137:	NDS 59, 767(1990), NDS 72, 355(1994)(Update); J.K. Tuli	1242
A=138:	NDS 69, 69(1993); J.K. Tuli	1261
A=139:	NDS 57, 337(1989); T.W. Burrows	1274
A=140:	NDS 51, 395(1987) (revised 1992); L.K. Peker	1295
A=141:	NDS 45, 1(1985), NDS 63, 573(1991)(Update); L.K. Peker	1313
A=142:	NDS 43, 579 (1984), NDS 63, 647(1991)(Update); L.K. Peker	1335
A=143:	NDS 48, 753(1986), NDS 64, 429(1991)(Update); L.K. Peker	1353
A=144:	NDS 56, 607(1989); J.K. Tuli	1372
A=145:	NDS 49, 1(1986), NDS 68, 997(1993)(Update); L.K. Peker	1386
A=146:	NDS 41, 195(1984), NDS 60, 953(1990)(Update); L.K. Peker	1407
A=147:	NDS 66, 705(1992); E. der Mateosian and L.K. Peker	1431
A=148:	NDS 59, 393(1990); L.K. Peker	1452
A=149:	NDS 46, 1(1985) (revised 1994); B. Singh	1474
A=150:	NDS 48, 345(1986) (revised 1990); E. der Mateosian	1509

CONTENTS—VOLUME II

TABLE OF ISOTOPES DATA. MASS NUMBER: REFERENCE; EVALUATOR(S)

A=151:	NDS 55, 185(1988); B. Singh, J.A. Szucs, and M.W. Johns	1532
A=152:	NDS 58, 93(1989); L.K. Peker	1574
A=153:	NDS 37, 487(1982), NDS 60, 419(1990)(Update); M.A. Lee	1602
A=154:	NDS 52, 1(1987), NDS 69, 507(1993)(Update); R.G. Helmer	1630
A=155:	NDS 71, 709(1994); C.W. Reich	1663
A=156:	NDS 49, 383(1986), NDS 65, 65(1992)(Update); R.G. Helmer	1689

A=157:	NDS 55, 71(1988) (revised 1994); R.G. Helmer	1713
A=158:	NDS 56, 199(1989) (revised 1994); R.G. Helmer	1736
A=159:	NDS 53, 507(1988), NDS 72, 83(1994)(Update); R.G. Helmer	1759
A=160:	NDS 68, 405(1993); C.W. Reich	1778
A=161:	NDS 59, 1(1990); R.G. Helmer	1797
A=162:	NDS 64, 79(1991); R.G. Helmer	1821
A=163:	NDS 56, 313(1989); T.W. Burrows	1838
A=164:	NDS 47, 433(1986), NDS 65, 365(1992)(Update); E.N. Shurshikov and N.V. Timofeeva	1860
A=165:	NDS 50, 137(1987), NDS 65, 439(1992)(Update); L.K. Peker	1877
A=166:	NDS 52, 365(1987), NDS 67, 45(1992)(Update); E.N. Shurshikov and N.V. Timofeeva	1899
A=167:	NDS 58, 871(1989); V.S. Shirley	1921
A=168:	NDS 53, 223(1988), NDS 71, 261(1994)(Update); V.S. Shirley	1941
A=169:	NDS 64, 505(1991); V.S. Shirley	1960
A=170:	NDS 50, 351(1987); Chunmei Zhou	1980
A=171:	NDS 43, 127(1984), NDS 66, 69(1992)(Update); V.S. Shirley	2000
A=172:	NDS 51, 577(1987) (revised 1994); B. Singh	2021
A=173:	NDS 54, 589(1988) (revised 1993); V.S. Shirley	2042
A=174:	NDS 41, 511(1984), NDS 62, 1(1991)(Update); E. Browne	2058
A=175:	NDS 69, 903(1993); A.O. Macchiavelli and E. Browne	2074
A=176:	NDS 60, 227(1990); E. Browne	2092
A=177:	NDS 68, 747(1993); E. Browne	2109
A=178:	NDS 54, 199(1988), NDS 72, 221(1994)(Update); E. Browne	2126
A=179:	NDS 55, 483(1988), NDS 72, 617(1994)(Update); C. Baglin	2140
A=180:	NDS 52, 127(1987), NDS 71, 81(1994)(Update); E. Browne	2165
A=181:	NDS 43, 289(1984), NDS 62, 101(1991)(Update) (revised 1992); R.B. Firestone	2182
A=182:	NDS 54, 307(1988); R.B. Firestone	2205
A=183:	NDS 52, 715(1987), NDS 65, 589(1992)(Update); R.B. Firestone	2224
A=184:	NDS 58, 243(1989); R.B. Firestone	2246
A=185:	NDS 58, 441(1989), NDS 74, 165(1995)(Update); E. Browne	2261
A=186:	NDS 55, 583(1988); R.B. Firestone	2283
A=187:	NDS 62, 159(1991) (revised 1992); R.B. Firestone	2300
A=188:	NDS 59, 133(1990); B. Singh	2319
A=189:	NDS 59, 869(1990) (revised 1991); R.B. Firestone	2333
A=190:	NDS 61, 243(1990); B. Singh	2348
A=191:	NDS 56, 709(1989) (revised 1994); E. Browne	2360
A=192:	NDS 64, 205(1991); V.S. Shirley	2377
A=193:	NDS 61, 519(1990); V.S. Shirley	2397
A=194:	NDS 56, 75(1989); B. Singh	2415
A=195:	NDS 57, 1(1989), NDS 71, 367(1994)(Update); Chunmei Zhou	2433
A=196:	NDS 28, 485(1979) (revised 1992); Gongqing Wang and Zhenlan Tao	2449
A=197:	NDS 62, 433(1991); Chunmei Zhou	2460
A=198:	NDS 60, 527(1990) (revised 1994); Chunmei Zhou	2470
A=199:	NDS 53, 331(1988), NDS 72, 297(1994)(Update); A. Artna-Cohen	2482
A=200:	NDS 51, 689(1987) (revised 1994); M.R. Schmorak	2492
A=201:	NDS 49, 733(1986), NDS 71, 421(1994)(Update); S. Rab	2504
A=202:	NDS 50, 669(1987); M.R. Schmorak	2515
A=203:	NDS 46, 287(1985), NDS 70, 173(1993)(Update); M.R. Schmorak	2522
A=204:	NDS 50, 719(1987), NDS 72, 409(1994)(Update); M.R. Schmorak	2532
A=205:	NDS 45, 145(1985), NDS 69, 679(1993)(Update); S. Rab	2544
A=206:	NDS 61, 93(1990); R.G. Helmer and M.A. Lee	2556
A=207:	NDS 43, 383(1984), NDS 70, 315(1993)(Update); M.J. Martin	2567
A=208:	NDS 47, 797(1986); M.J. Martin	2579
A=209:	NDS 63, 723(1991); M.J. Martin	2592
A=210:	NDS 34, 735(1981), NDS 65, 209(1992)(Update); E. Browne	2603
A=211:	NDS 63, 79(1991); A. Artna-Cohen	2612
A=212:	NDS 66, 171(1992); A. Artna-Cohen	2618
A=213:	NDS 66, 237(1992); Y.A. Akovali	2624
A=214:	NDS 55, 665(1988); Y.A. Akovali	2628
A=215:	NDS 65, 669(1992); E. Browne	2637
A=216:	NDS 49, 83(1986); M.J. Martin	2640
A=217:	NDS 63, 439(1991); Y.A. Akovali	2643

A=218: NDS 52, 789(1987); Y.A. Akovali	2646
A=219: NDS 65, 669 (1992); E. Browne	2649
A=220: NDS 49, 102(1986); M.J. Martin	2655
A=221: NDS 61, 623(1990); Y.A. Akovali	2660
A=222: NDS 51, 765(1987); Y.A. Akovali	2664
A=223: NDS 65, 669(1992); E. Browne	2667
A=224: NDS 49, 117(1986); M.J. Martin	2675
A=225: NDS 60, 617(1990); Y.A. Akovali	2680
A=226: NDS 50, 229(1987); Y.A. Akovali	2687
A=227: NDS 65, 669(1992); E. Browne	2692
A=228: NDS 49, 136(1986); M.J. Martin	2699
A=229: NDS 58, 555(1989); Y.A. Akovali	2710
A=230: NDS 69, 155(1993); Y.A. Akovali	2715
A=231: NDS 40, 1(1983), NDS 70, 387(1993)(Update); M.R. Schmorak	2723
A=232: NDS 63, 139(1991); M.R. Schmorak	2730
A=233: NDS 59, 263(1990); Y.A. Akovali	2735
A=234: NDS 40, 523(1983), NDS 71, 181(1994)(Update); Y.A. Akovali	2743
A=235: NDS 40, 35(1983), NDS 69, 375(1993)(Update); M.R. Schmorak	2758
A=236: NDS 63, 183(1991); M.R. Schmorak	2766
A=237: NDS 49, 181(1986); Y.A. Akovali	2771
A=238: NDS 53, 601(1988); E.N. Shurshikov	2779
A=239: NDS 40, 87(1983), NDS 66, 839(1992)(Update); M.R. Schmorak	2789
A=240: NDS 59, 947(1990); E.N. Shurshikov and N.V. Timofeeva	2797
A=241: NDS 44, 407(1985), NDS 72, 191(1994)(Update); Y.A. Akovali	2803
A=242: NDS 45, 509(1985); E.N. Shurshikov	2807
A=243: NDS 33, 79(1981), NDS 66, 897(1992)(Update); Y.A. Akovali	2812
A=244: NDS 49, 785(1986); E.N. Shurshikov	2816
A=245: NDS 67, 153(1992); Y.A. Akovali	2821
A=246: NDS 57, 515(1989); M.R. Schmorak	2827
A=247: NDS 66, 505(1992); Y.A. Akovali	2834
A=248: NDS 57, 543(1989); M.R. Schmorak	2837
A=249: NDS 59, 507(1990); M.R. Schmorak	2840
A=250: NDS 57, 558(1989); M.R. Schmorak	2846
A=251: NDS 59, 545(1990); M.R. Schmorak	2851
A=252: NDS 57, 579(1989); M.R. Schmorak	2857
A=253: NDS 59, 575(1990); M.R. Schmorak	2859
A=254: NDS 57, 590(1989); M.R. Schmorak	2861
A=255: NDS 59, 591(1990); M.R. Schmorak	2863
A=256: NDS 57, 601(1989); M.R. Schmorak	2865
A=257: NDS 59, 605(1990); M.R. Schmorak	2868
A=258: NDS 57, 610(1989); M.R. Schmorak	2869
A=259: NDS 59, 614(1990); M.R. Schmorak	2871
A=260: NDS 57, 616(1989); M.R. Schmorak	2872
A=261: NDS 59, 620(1990); M.R. Schmorak	2873
A=262: NDS 57, 621(1989); M.R. Schmorak	2874
A=263: NDS 59, 624(1990); M.R. Schmorak	2875
A=264: NDS 57, 624(1989); M.R. Schmorak	2875
A=265: NDS 59, 626(1990); M.R. Schmorak	2876
A=266: NDS 57, 624(1989); M.R. Schmorak	2876
A=267: GSI-94; R.B. Firestone	2876
A=268: GSI-94; R.B. Firestone	2877
A=269: GSI-94; R.B. Firestone	2877
A=271: GSI-94; R.B. Firestone	2877
A=272: GSI-94; R.B. Firestone	2877
REFERENCES	Ref-1

APPENDICES

APPENDIX A. PROPERTIES OF THE ELEMENTS

1. Periodic Table	A-1
2. Properties of the Elements	A-2

APPENDIX B. PHYSICAL CONSTANTS	B-1
--------------------------------------	-----

APPENDIX C. NUCLEAR SPECTROSCOPY STANDARDS

1. Gamma-ray Energy and Intensity Standards	C-1
2. Alpha-particle Energy and Intensity Standards	C-5

APPENDIX D. ENERGY-ORDERED DECAY GAMMA-RAY TABLE

D-1

APPENDIX E. NUCLEAR MOMENTS

E-1

APPENDIX F. ATOMIC DATA

1. Theoretical Internal Conversion Coefficients	F-1
2. Electron Capture Subshell Ratios	F-33
3. Atomic-Electron Binding Energies	F-37
4. Fluorescence and Coster-Kronig Yields	F-40
5. X-ray Energies and Intensities	F-44
6. Auger-Electron Intensities	F-54

APPENDIX G. ABSORPTION OF RADIATION IN MATTER

1. Absorption of Photons in Matter	G-1
2. Absorption of Electrons in Matter	G-3
3. Range and Stopping Power for Nuclei	G-4
4. Positron Annihilation	G-11

APPENDIX H. NUCLEAR STRUCTURE

H-1

APPENDIX I. REDUCED TRANSITION PROBABILITIES

1. Photon Transition Probabilities	I-1
2. E0 Transition Probabilities	I-5
3. Beta Transition Probabilities	I-9
4. Alpha Transition Probabilities	I-14