

## Contents

	Page		Page
Preface.....	II	5. The Periodic Table.....	VIII
Index to Spectra.....	IV	5.1 The chemical elements by atomic number—ionization potentials for spectra of the elements H to La and Hf to Ac (table 34).....	VIII
1. Introduction.....	VII	5.2 The chemical elements by chemical symbol (table 35).....	IX
2. Scope of the Present Tables.....	VII	5.3 The periodic system (table 36).....	IX
3. Arrangement.....	VII	5.4 Index—isoelectronic sequences (table 37).....	IX
4. Tables of Predicted and Observed Arrays of Terms.....	VIII	6. References.....	IX
		7. Acknowledgments.....	X

A list of additions and corrections to Volumes I and II is appended, pages 238 to 245.

## List of Tables

Table	Subject	Page	Table	Subject	Page
	PREDICTED TERMS			PREDICTED TERMS—continued	
1	Mo I	XII	19	Re I	XXV
2	Tc I	XIII	20	Os I	XXVI
3	Ru I	XIV	21	Ir I	XXVII
4	Rh I	XV	22	Pt I	XXVII
5	Pd I	XVI	23	Au I	XXVIII
6	Ag I	XVI	24	Hg I	XXVIII
7	Cd I	XVII	25	Tl I	XXIX
8	In I	XVII	26	Pb I	XXIX
9	Sn I	XVIII	27	Bi I	XXX
10	Sb I	XVIII	28	Po I	XXX
11	Te I	XIX	29	At I	XXXI
12	I I	XIX	30	Rn I	XXXI
13	Xe I	XX	31	Ra I	XXXII
14	Ba I	XX	32	Ac I	XXXII
15	La I	XXI	33	References to Rare-Earth Spectra	XXXIII
**			34	Ionization Potentials	XXXIV
16	Hf I	XXII	35	Chemical Symbols	XXXVI
17	Ta I	XXIII	36	The Periodic System	XXXVII
18	W I	XXIV	37	Index—Isoelectronic Sequences	XXXVIII

\*\* The two groups of rare-earth spectra, Ce to Lu ( $Z=58$  to  $71$ ) and Th to Fm ( $Z=90$  to  $100$ ) will be included in Vol. IV. See references to these spectra in Table 33.