

Table of Contents

	Page
Preface	v
Introduction	vii
I. General Editors' Comments	vii
II. Critical Coupled Evaluation of Phase Diagrams and Thermodynamic Properties of Binary and Ternary Alkali Salt Systems by James M. Sangster and Arthur D. Pelton	viii
 A. Metal Plus Halides or Halogens	1
I. One Metal Plus One Bromide.....	1
II. One Metal Plus One or More Chlorides.....	3
III. One Metal Plus One Iodide	8
IV. Two Metals Plus Chloride or Chlorine	10
 B. Oxyanions Only	12
I. Common Anion Systems.....	12
(a) One Carbonate	12
(b) Two Carbonates.....	15
(c) Two Perchlorates.....	27
(d) Two Iodates	30
(e) Two Nitrates.....	33
(f) Three Nitrates	41
(g) Two Hydroxides	43
(h) Two Sulfates.....	46
(i) Three Sulfates.....	58
II. Mixed Anion Systems	62
(a) Two Oxyanions	62
(b) Three and Four Oxyanions	81
 C. Oxyanions Plus Halides	83
I. Carbonates Plus Halides	83
II. Perchlorates Plus Halides	89
III. Nitrates Plus Halides	92
IV. Hydroxides Plus Halides	107
V. Sulfates Plus Halides	115
VI. Two Oxyanions Plus Others	128
 D. Bromides Only	129
I. Two Bromides.....	129
(a) Monovalent Bromides Plus Others.....	129
(b) Divalent and Trivalent Bromides Plus Others	170
II. Three Bromides.....	173
 E. Chlorides Only	190
I. Two Chlorides	190
(a) Monovalent Chlorides Plus Others.....	190
(b) Divalent Chlorides Plus Others.....	234
(c) Trivalent Chlorides Plus Others	247
(d) Tetravalent Chlorides Plus Others	256
(e) Pentavalent Chlorides Plus Others	269
II. Three Chlorides	273
(a) Monovalent Chlorides Plus Others.....	273
(b) Divalent and Trivalent Chlorides Plus Others	312
III. Four Chlorides	316

	Page
F. Fluorides Only	317
I. Two Fluorides.....	317
(a) Monovalent Fluorides Plus Others.....	317
(b) Divalent Fluorides Plus Others.....	345
(c) Trivalent through Pentavalent Fluorides Plus Others.....	389
II. Three Fluorides.....	392
III. Four Fluorides	418
G. Iodides Only	423
I. Two Iodides	423
(a) Monovalent Iodides Plus Others.....	423
(b) Divalent and Trivalent Iodides Plus Others	461
II. Three Iodides	469
H. Mixed Halides.....	485
I. Two Halides	485
II. Three Halides	526
III. Four Halides	543
IV. Five Halides.....	551
V. Six Halides.....	552
VI. Eight Halides.....	571
I. One Chloride Plus Iodine.....	574
J. Halide Plus Gas.....	575
K. Two Cyanides.....	576
Author Index	577
System Index.....	581