

Contents

3	Magnetic properties of actinide elements and compounds	1
3.1	Actinide elements (R. TRÓC, W. SUSKI)	1
3.1.1	Introduction	1
3.1.1.1	Atomic properties	1
3.1.1.2	Free-ion properties	3
3.1.1.3	Properties of actinide metals	5
3.1.1.4	Arrangement of tables and figures	7
3.1.2	Actinide metals	9
3.1.2.1	Crystallographic properties	9
3.1.2.2	Electronic, magnetic and electrical properties	28
3.1.2.2.1	Electronic properties	40
3.1.2.2.2	Magnetic properties	54
3.1.2.2.3	Electrical properties	63
3.1.2.3	Thermodynamic properties	77
3.1.3	References for 3.1	84
3.2	Compounds of actinide elements with 3d elements (J.J.M. FRANSE, R. GERSDORF)	91
3.2.1	Introduction	91
3.2.2	Compounds of Th with 3d elements	91
3.2.2.1	Survey Th-3d compounds	91
3.2.2.2	Data Th-3d compounds	94
3.2.3	Compounds of U with 3d elements	112
3.2.3.1	Survey U-3d compounds	112
3.2.3.2	Data U-3d compounds	114
3.2.4	Compounds of transuranium metals with 3d elements	131
3.2.4.1	Survey Np, Pu, Am-3d compounds	131
3.2.4.2	Data Np, Pu, Am-3d compounds	132
3.3	Compounds of actinide elements with 4d or 5d elements (J.J.M. FRANSE, R. GERSDORF)	137
3.3.1	Survey An-4d, 5d compounds	137
3.3.2	Data An-4d, 5d compounds	142
3.3.3	References for 3.2 and 3.3	190