

Contents

List of symbols	X
Definitions, units and conversion factors	XIV
List of abbreviations	XV
2 Magnetic properties of rare earth elements, alloys and compounds	
2.1 Rare earth elements	see subvolume III/19d1
2.2 Rare earth hydrides	see subvolume III/19d1
2.3 Alloys between rare earth elements	see subvolume III/19d1
2.4 Compounds of rare earth elements and 3d elements (H. R. KIRCHMAYR, E. BURZO)	1
2.4.1 Introduction	1
2.4.1.1 General	1
2.4.1.2 Phase diagrams. Crystal structure	2
2.4.1.3 General view on the magnetic behaviour of RM_x compounds	13
2.4.1.3.1 General	13
2.4.1.3.2 Magnetic interactions in RM_x compounds	16
2.4.1.3.3 Models used to analyse the magnetic properties of RM_x compounds	17
2.4.2 Data	26
2.4.2.1 R_3M compounds	26
2.4.2.2 R_5M_2 compounds	35
2.4.2.3 R_7M_3 compounds	36
2.4.2.4 $R_{24}M_{11}$ compounds	41
2.4.2.5 $R_{12}M_7$ compounds	43
2.4.2.6 R_8M_5 compounds	44
2.4.2.7 R_3M_2 compounds	46
2.4.2.8 $R_4M_3(R_9M_7)$ compounds	50
2.4.2.9 $RCo_{1-x}(RCo_{0.85})$ compounds	60
2.4.2.10 RNi compounds	64
2.4.2.11 R_2M_3 compounds	80
2.4.2.12 RM_2 compounds	83
2.4.2.13 RM_3 compounds	172
2.4.2.14 R_2M_7 compounds	203
2.4.2.15 R_5M_{19} compounds	220
2.4.2.16 R_6M_{23} compounds	223
2.4.2.17 RM_5 compounds	248
2.4.2.18 R_2M_{17} compounds	327
2.4.2.19 RM_{12} compounds	371
2.4.3 References for 2.4	405
2.5 Compounds of rare earth elements and 4d or 5d elements (A. CHEŁKOWSKI)	469
2.5.1 Introduction	469
2.5.2 Survey of compounds and properties	470
2.5.3 Figures	493
References for 2.5	543
2.6 Compounds based on rare earth elements and Cu, Ag or Au	see subvolume III/19e1
2.7 Compounds of rare earth elements and Be, Mg, Zn, Cd or Hg	see subvolume III/19e2
2.8 Compounds based on rare earth elements and B	see subvolume III/19e2
2.9 Compounds of rare earth elements and Al, Ga, In or Tl	see subvolume III/19e2
2.10 Compounds of rare earth elements and C, Si, Ge, Sn or Pb	see subvolume III/19e2