

# Contents

## Ternary Alloys

A Comprehensive Compendium of Evaluated Constitutional Data and Phase Diagrams

Volume 19

Selected Systems for Nuclear Applications

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## Ternary Systems

Al – Fe – U (Aluminium – Iron – Uranium)	1
Al – Mo – U (Aluminium – Molybdenum – Uranium)	24
Al – O – Pu (Aluminium – Oxygen – Plutonium)	45
Al – Pu – Ru (Aluminium – Plutonium – Ruthenium)	51
Al – Si – U (Aluminium – Silicon – Uranium)	53
C – Fe – Pu (Carbon – Iron – Plutonium)	70
C – Fe – U (Carbon – Iron – Uranium)	75
C – Mo – U (Carbon – Molybdenum – Uranium)	84
C – N – U (Carbon – Nitrogen – Uranium)	106
C – O – U (Carbon – Oxygen – Uranium)	115
C – Pd – Pu (Carbon – Palladium – Plutonium)	126
C – Pd – Th (Carbon – Palladium – Thorium)	130
C – Pd – U (Carbon – Palladium – Uranium)	133
C – Pu – Rh (Carbon – Plutonium – Rhodium)	137
C – Pu – Ru (Carbon – Plutonium – Ruthenium)	142
C – Pu – Th (Carbon – Plutonium – Thorium)	146
C – Pu – U (Carbon – Plutonium – Uranium)	152
C – Pu – Zr (Carbon – Plutonium – Zirconium)	173
C – Rh – Th (Carbon – Rhodium – Thorium)	180
C – Rh – U (Carbon – Rhodium – Uranium)	185
C – Ru – Th (Carbon – Ruthenium – Thorium)	194
C – Ru – U (Carbon – Ruthenium – Uranium)	200
C – Th – U (Carbon – Thorium – Uranium)	211
C – Th – Zr (Carbon – Thorium – Zirconium)	223
C – U – Zr (Carbon – Uranium – Zirconium)	226

Ce – Mg – O (Cerium – Magnesium – Oxygen)	235
Cs – Fe – O (Cesium – Iron – Oxygen)	241
Cs – Mo – O (Cesium – Molybdenum – Oxygen)	248
Cs – O – U (Cesium – Oxygen – Uranium)	264
Cs – O – Zr (Cesium – Oxygen – Zirconium)	273
Fe – N – U (Iron – Nitrogen – Uranium)	278
Fe – Na – O (Iron – Sodium – Oxygen)	282
Fe – O – Pb (Iron – Oxygen – Lead)	302
Fe – O – U (Iron – Oxygen – Uranium)	317
Fe – U – Zr (Iron – Uranium – Zirconium)	326
Mo – O – Th (Molybdenum – Oxygen – Thorium)	333
Mo – O – U (Molybdenum – Oxygen – Uranium)	338
Mo – Ru – U (Molybdenum – Ruthenium – Uranium)	349
Mo – Si – U (Molybdenum – Silicon – Uranium)	352
N – Pu – U (Nitrogen – Plutonium – Uranium)	361
N – Pu – Zr (Nitrogen – Plutonium – Zirconium)	372
N – Th – U (Nitrogen – Thorium – Uranium)	376
N – U – Zr (Nitrogen – Uranium – Zirconium)	379
Na – O – Zr (Sodium – Oxygen – Zirconium)	383
Nb – Si – U (Niobium – Silicon – Uranium)	390
O – Pb – Zr (Oxygen – Lead – Zirconium)	396
O – Pu – Th (Oxygen – Plutonium – Thorium)	418
O – Pu – U (Oxygen – Plutonium – Uranium)	425
O – Pu – Zr (Oxygen – Plutonium – Zirconium)	446
O – Th – Zr (Oxygen – Thorium – Zirconium)	456
O – U – Zr (Oxygen – Uranium – Zirconium)	461
Pd – Rh – U (Palladium – Rhodium – Uranium)	477
Pu – Th – U (Plutonium – Thorium – Uranium)	482
Pu – U – Zr (Plutonium – Uranium – Zirconium)	489
Ru – Si – U (Ruthenium – Silicon – Uranium)	507
Th – U – Zr (Thorium – Uranium – Zirconium)	530