

SUBJECT INDEX TO VOLUME 8

	Page		Page
<i>a</i> = abstract		Catalysts (contd.)	
Anodic Protection , of carbon steel, <i>a</i>	37	Platinum Metals , activation energy, <i>a</i>	32
Brazing , Pd in ceramic-to-metal seals, <i>a</i>	33	borides of, <i>a</i>	36
Brazing Alloys , containing Pd, <i>a</i>	33	complexes, isomerisation of olefins, <i>a</i>	151
Calorimeter , differential, high temperature, <i>a</i>	110	hydrogenation of soybean oil, <i>a</i>	152
Catalysis , Third International Congress	131	olefin complexes	92
Catalysts ,		reacted with NaBH ₄ , <i>a</i>	36
Adams ² , hydrogenation of dihydrolanosteryl		Pt/Al₂O₃ , active surfaces, <i>a</i>	74
and dihydrognosteryl acetates, <i>a</i>	111	chemisorption of C ₂ H ₄ , <i>a</i>	149
IrCl₃ , isomerisation of olefins, <i>a</i>	151	conversion of	
Ir/C , hydrogenolysis of		1,1-dimethylcyclohexane, <i>a</i>	151
1,2-dimethylcyclopentanes, <i>a</i>	36	desorption of H ₂ , <i>a</i>	150
Os/Al₂O₃ , hydrogenation and deuteration	60	effect of H ₂ O, <i>a</i>	74
Os/C , Hydrogenolysis of		H ₂ -D ₂ exchange, <i>a</i>	111
1,2-dimethylcyclopentanes, <i>a</i>	36	hydrogenolysis of cyclopentanes, <i>a</i>	150
Palladium , black, decomposition of O ₃ , <i>a</i>	112	hydrogenolysis of C ₂ H ₆ , <i>a</i>	111
black, effect of ultrasonics, <i>a</i>	112	migration of H atoms, <i>a</i>	110
black, hydrogenation of dienes, <i>a</i>	151	reactions of C ₆ aromatics, <i>a</i>	149
black, hydrogenation of pentyne, <i>a</i>	34	Pt/C , conversion of <i>n</i> -amylbenzene, <i>a</i>	151
black, hydrogenation of piperylene		conversion of	
isomers, <i>a</i>	34	1,1-dimethylcyclohexane, <i>a</i>	151
black, isomerisation of hexenes, <i>a</i>	35	conversion of spiro-(5,6)-dodecane, <i>a</i>	150
conversion of methylpentenes, <i>a</i>	151	conversion of spiro-(5,5)-undecane, <i>a</i>	75
films, fission of C-halogen bond, <i>a</i>	75	E.S.R. studies, <i>a</i>	74
films, oxidation of olefins, <i>a</i>	112	E.S.R. studies in gases, <i>a</i>	74
Raney-type, promotion by B, <i>a</i>	112	hydrogenation of cyclododecane, <i>a</i>	111
PdCl₂ , activation, <i>a</i>	151	hydrogenation of furans, <i>a</i>	34
formation of ethyl-3-butenolate, <i>a</i>	75	hydrogenation of nitrocyclohexane, <i>a</i>	151
formation of methyl ethyl ketone, <i>a</i>	76	hydrogenation of vinylcyclohexane, <i>a</i>	151
interaction with C ₂ H ₂ , <i>a</i>	113	isomerisation of hexenes, <i>a</i>	150
isomerisation of olefins, <i>a</i>	75	isomerisation of olefins, <i>a</i>	151
oxidation of alcohols, <i>a</i>	35	oxidation of H ₂ , <i>a</i>	74
PdCl₂/CuCl₂ , conversion of α -olefins, <i>a</i>	112	tritiation, <i>a</i>	150
oxidation of olefins, <i>a</i>	35	Pt/oxide supports , properties, <i>a</i>	111
oxidation of propylene, <i>a</i>	35	Pt/SiO₂ , desorption of H ₂ , <i>a</i>	150
Pd-Au , hydrogenation of quinone, <i>a</i>	75	hydrogenation of C ₂ H ₄ , <i>a</i>	110
Pd/Al₂O₃ , deactivation, <i>a</i>	113	hydrogenolysis of cyclopentanes, <i>a</i>	150
deuteration of butyne and butadienes, <i>a</i>	75	hydrogenolysis of C ₂ H ₆ , <i>a</i>	111
deuteration of dialkylacetylenes, <i>a</i>	75	mixed with Al ₂ O ₃ , <i>a</i>	74
hydrogenation of furans, <i>a</i>	34	oxidation of NH ₃ , <i>a</i>	34
Pd/C , formation of 2,2'-bipyridyl	76	preparation and properties, <i>a</i>	34
hydrogenation of aryl nitro groups,		Pt/SiO₂-Al₂O₃ , conversion of	
inhibitors, <i>a</i>	35	cyclopentanes, <i>a</i>	150
hydrogenation of furans, <i>a</i>	34	Pt/zeolite , hydrogenation of butenes, <i>a</i>	110
hydrogenation of nitrocyclohexane, <i>a</i>	151	PtO₂ , hydrogenation of dihydrolanosteryl	
hydrogenation of olefins, <i>a</i>	113	and dihydrognosteryl acetates, <i>a</i>	111
hydrogenolysis of		hydrogenation of dimethylcyclobutane, <i>a</i>	150
1,2-dimethylcyclopentanes, <i>a</i>	36	hydrogenation of organic acids, <i>a</i>	34
isomerisation of hexenes, <i>a</i>	35	self-activation for D ₂ exchange, <i>a</i>	111
isomerisation of olefins, <i>a</i>	151	Platinum-Palladium , activity, <i>a</i>	113
Pd/oxide supports , for hydrogenation, <i>a</i>	113	Platinum-Ruthenium , CH ₃ -D ₂ exchange, <i>a</i>	113
Pd/SiO₂ , dehydrogenation of cyclohexane, <i>a</i>	112	Rhodium , black, hydrogenation of olefins, <i>a</i>	151
Palladium-Platinum , activity, <i>a</i>	113	black, hydrogenation of pentyne, <i>a</i>	34
Palladium-Rhodium , activity, <i>a</i>	113	reduction of organic compounds, <i>a</i>	35
Pd-Ag/SiO₂ , dehydrogenation of		RhCl₃ , isomerisation of olefins, <i>a</i>	151
cyclohexane, <i>a</i>	113	Rh/Al₂O₃ , hydrogenation of haloalkenes, <i>a</i>	113
Platinum , adsorption of H ₂ , <i>a</i>	75	Rh/C , formation of 2,2'-biquinolyl, <i>a</i>	76
aromatization of gasoline, <i>a</i>	111	hydrogenolysis of	
black, activity, <i>a</i>	75	1,2-dimethylcyclopentanes, <i>a</i>	36
black, decomposition of O ₃ , <i>a</i>	112	Rhodium-Palladium , activity, <i>a</i>	113
black, desorption of H ₂ , <i>a</i>	150	Ruthenium , hydrogenation of organic	
black, effect of ultrasonics, <i>a</i>	112	compounds, <i>a</i>	35
black, hydrogenation of dienes, <i>a</i>	34	synthesis of paraffin waxes, <i>a</i>	152
black, hydrogenation of pentyne, <i>a</i>	34	Ru/Al₂O₃ , hydrogenation and deuteration	60
black, hydrogenation of piperylene		Ru/Ba₂SO₄ , production of polyhydroxy	
isomers, <i>a</i>	34	alcohols, <i>a</i>	36
black, reduction of nitrobenzene, <i>a</i>	150	Ru/C , hydrogenation of organic	
conversion of methylpentenes, <i>a</i>	151	compounds, <i>a</i>	35
decomposition of NH ₃ , <i>a</i>	111	production of polyhydroxy alcohols, <i>a</i>	36
difunctional, in petroleum refining	2	Ru/SiO₂ , hydrogenolysis of C ₂ H ₆ , <i>a</i>	76
films, dehydration of cyclohexadiene-1,3	34	RuO₂ , hydrogenation of aromatics, <i>a</i>	152
films, fission of C-halogen bond, <i>a</i>	75	synthesis of polymethylene, <i>a</i>	152
films, oxidation of olefins, <i>a</i>	112	RuO₄ , oxidation of steroid alcohols, <i>a</i>	76
isomerisation of hexenes, <i>a</i>	150	Ruthenium-Platinum , CH ₃ -D ₂ exchange, <i>a</i>	113
Raney-type, promotion by B, <i>a</i>	112	Sodium Chloropalladate (II) , isomerisation	
synthesis of HCN, <i>a</i>	110	of olefins, <i>a</i>	112
		Cathodic Protection , Pb/Pt anodes, <i>a</i>	114
		Corrosion , Ir, <i>a</i>	33, 73

Crucibles, Pt, calorimeter, a	110	Fuel cells (contd.)	<i>Page</i>
Pt metals, polymerisations in, a	110	CH₄-O₂, with Pt electrodes, a	76
Crystal Growing, Pt in cell for, a	110	oxidation of hydrocarbons, a	152
		oxidation of CH₃OH, a	152
		Pd alloy anode, a	36
Deuterium, absorption in Pt-Pd alloys, a	147	Pd and Ag-Pd electrodes, a	76
exchange reactions, a	74, 111, 113	Pd H₂-diffusion electrode, a	76
Dew Point Meter, a	115	physical chemistry, a	77
Diffusion Cells, for H₂ purification, a	29, 33, 91, 114	Pt black electrodes, a	114
		Pt metals in	42
		Pt or Pd black, a	77
		C₂H₄-O₂, a	114
Electrical Contacts, Pd, effect of organic vapours, a	37	saturated hydrocarbon, a	36
Pt metals, Graz symposium	99	thin electrodes, a	36
Electrodeposition of,		types of electrodes, a	114
Platinum Metals, applications, a	73	Furnace, for microscopy and X-ray analysis, a	153
Rhodium, stress and contamination	55	high temperature, Rh-Pt wound	66
Electrodes,		Pt-lined, for fluorination of U compounds	12
activated graphite discs, a	152	resistivity of refractories for	98
screens, Pt and Pt-C, a	36	Rh-Pt wound, in X-ray diffractometer, a	74
Iridium, anodes, oxidation of C₂H₄, a	149		
cathode base, a	114	Glass, kinematic viscosity, a	114
Pb/Pt, anodes, for marine cathodic protection, a	114		
Noble Metals, potentials in metal-O₂-acid systems, a	109	Hydrogen Cyanide, synthesis, a	110
potentials, a	109	Hydrogen Diffusion, in Pd and Pd alloys, a	70, 76, 114
Palladium, anodes, oxidation of C₂H₄, a	149	Hydrogen Purification, tubes for electrolytic technique, a	33, 91, 73
black	90	Hydrogenation of,	
in fuel cells, a	76	C₂H₂, a	149
oxidation, a	109	acetylenes and C₂H₄	60
palladised, hydrogenation of C₂H₂ and C₂H₄, a	149	aromatics, a	152
Palladium Alloys, anodes, in fuel cells, a	36	aryl nitro groups, a	35
Pd/Ni, in fuel cell, a	152	butenes, a	110
Pd/stainless steel, in hydrogen purification, a	73	cyclododecane, a	111
Palladium-Silver, in fuel cells, a	76	dienes, a	34, 151
Platinised Ti, anodes, in electrorefining of Co, a	73	dihydrolanosteryl and dihydrognosteryl acetates, a	111
Platinum, anodes, cleanliness, a	149	dimethylenecyclobutane, a	150
anodes, oxidation of C₂H₂, a	149	C₂H₄, a	76
anodes, oxidation of organic compounds, a	33	ethyl crotonate, a	151
anodes, protection of carbon steel, a	37	C₂H₄, a	110, 149
black	90	haloalkenes, a	113
black, in fuel cells, a	36, 114, 152	hexenes, a	35
cell for O₂ determination, a	110	2-methyl-5-acetylfurans, a	34
chemisorption of O₂ and H₂, a	32	nitrocyclohexene, a	151
effect of acidity, a	73	olefins, a	113, 151
for resistivity measurements	98	organic acids, a	34
in cell for crystal growing, a	110	organic compounds, a	35
in fuel cells, a	36, 76, 114	pentynes, a	34
oxidation, a	32, 109	piperylene isomers, a	34
oxidation of CO and CH₃OH, a	32	quinone, a	75
platinised gauze, oxidation of C₂H₂, a	149	soybean oil, a	152
platinised, hydrogenation of CH₂ and C₂H₄, a	149	vinylcyclohexane, a	151
reduction of O₂, a	109		
Platinum Metals, activation energy, a	32	Iridium,	
a.c. polarisation	90	adsorption and decomposition of hydrocarbons on, a	31
in electrochemistry	14	corrosion	33, 130
in fuel cells	42, 114	crucibles, a	110, 149
oxidation and adsorption of CH₃OH, a	73	crystals, deformation of	102
Pt/Ni, in fuel cells, a	152	Ir¹⁹² isotope in HNO₃ manufacture	127
Pt/stainless steel, in hydrogen purification, a	73	oxidation, a	107
Pt/Ta, in hydrogen purification, a	73	passivation, a	73
in fuel cells, a	152	valve cathodes, a	114
Pt or Pd, in fuel cells, a	77	vapour pressure	30, 134
Rhodium, anodes, oxidation of C₂H₄, a	149	Iridium Alloys,	
in hydrogen purification, a	73	with refractory metals, a	31
oxidation, a	110	Iridium-Boron, crystal structure, a	72
reduction of organic compounds, a	35	Iridium-Iron, structure, a	148
Electron Probe Scanning Microanalyser	122	Iridium-Molybdenum, a	71
Electronics, Pt wave-guide termination	15	Iridium-Niobium, crystal data, a	148
Electron Microscope, Pt in heating stages, a	33	superconducting phase, a	148
		Iridium-Osmium, phase diagram, a	148
Filters, sintered Pt	54	Iridium-Palladium, constitution, a	148
Fuel Cells, electrode structure, a	152	Iridium-Platinum, crucibles, a	74
hydrocarbon/air, a	36	viscosity of glass apparatus, a	114
H₂-Cl₂, a	152	Iridium-Ruthenium, phase diagram, a	148

Iridium Alloys (contd.)	Page	Palladium Alloys (contd.)	Page
Iridium-Tantalum, crystal data, <i>a</i>	148	Palladium-Iridium , constitution, <i>a</i>	148
Iridium-Thorium, constitution, <i>a</i>	71	Palladium-Iron , magnetic properties	9
Iridium-Titanium, superconductivity, <i>a</i>	108	phase diagram below 950°C, <i>a</i>	29
Iridium-Tungsten, constitution, <i>a</i>	71	transformation kinetics, <i>a</i>	29
superconducting phase, <i>a</i>	148	Palladium-Iron-Copper , properties, <i>a</i>	70
Iridium-Zirconium, superconductivity, <i>a</i>	108	Palladium-Manganese , crystal and magnetic	
Iridium Complexes , structure, <i>a</i>	72	structure, <i>a</i>	71
with phenanthroline, <i>a</i>	72	Palladium-Molybdenum , constitution, <i>a</i>	70
Klaus , research by	67	Palladium-Nickel , heat capacity, <i>a</i>	107
Magnets , Pt alloy, circuit design for,	82	mechanical properties, <i>a</i>	148
Co-Pt, by powder metallurgy, <i>a</i>	147	structure, <i>a</i>	71
Nitric Acid , manufacture, Ir ¹⁹² in	127	Palladium-Niobium , crystal data, <i>a</i>	148
Organometallic Compounds , of Pt metals	16	superconducting phase, <i>a</i>	148
Osmium ,		Palladium-Phosphorous , superconductivity, <i>a</i>	31
carbides not formed, <i>a</i>	148	Palladium-Platinum , absorption of	
oxidation, <i>a</i>	107	H ₂ and D ₂ , <i>a</i>	147
semiconductors with As, P, S, Sb, Se, Te, <i>a</i>	71	Palladium-Rhenium , properties, <i>a</i>	29
vapour pressure	134, 148	Palladium-Rhenium-Tungsten , structure, <i>a</i>	107
Osmium Alloys , with refractory metals, <i>a</i>	31	Palladium-Rhodium , effect of Rh ₂ O ₃ , <i>a</i>	147
Osmium-Boron, crystal structure, <i>a</i>	72	magnetic susceptibility, <i>a</i>	147
Osmium-Iridium, phase diagram, <i>a</i>	148	Palladium-Ruthenium , magnetic	
Osmium-Molybdenum, superconducting		susceptibility, <i>a</i>	29
phase, <i>a</i>	148	Palladium-Silver , diffusion tubes, <i>a</i>	33, 114
Osmium-Nickel, mechanical properties, <i>a</i>	148	hydrogen content, <i>a</i>	30
Osmium-Niobium, superconducting phase, <i>a</i>	148	self-diffusion of Pd in, <i>a</i>	70
Osmium-Thorium, constitution, <i>a</i>	71	Palladium-Tantalum , crystal data, <i>a</i>	148
Osmium Chloride Complexes , structure, <i>a</i>	72	Palladium-Terbium , magnetic properties, <i>a</i>	107
Osmium Complexes , halido- and hydrido-alkyl		Palladium-Thorium , constitution, <i>a</i>	107
and -aryl, <i>a</i>	72	Palladium-Tungsten , constitution, <i>a</i>	107
Oxidation of ,		Palladium-Tungsten-Rhenium , structure, <i>a</i>	107
C ₂ H ₂ , <i>a</i>	149	Palladium-Uranium , phase diagram, <i>a</i>	147
alcohols, <i>a</i>	35	Palladium Complexes , <i>a</i>	32, 109
NH ₃ , <i>a</i>	34	Palladium Oxides , properties, <i>a</i>	109
butylenes, <i>a</i>	76	Petroleum Refining , aromatisation of gasoline, <i>a</i>	111
CO and CH ₃ OH, <i>a</i>	32	duofunctional Pt catalysts	2
C ₂ H ₄ , <i>a</i>	149	Platinax II , circuit design	82
hydrocarbons, <i>a</i>	152	Platinum , activated surfaces	141
H ₂ , <i>a</i>	74	adsorption of halide ions, <i>a</i>	73
CH ₄ , <i>a</i>	76	adsorption of H ₂ , <i>a</i>	29
CH ₃ OH, <i>a</i>	73, 152	black, formation	90
olefins, <i>a</i>	35, 112	contamination, in glass industry	122
organic compounds, <i>a</i>	33	crucibles, for polymerisations, <i>a</i>	110
Pt	50	crucibles, in calorimeter, <i>a</i>	110
Pt metals, <i>a</i>	31	film temperature probes	146
propylene, <i>a</i>	35	filters, sintered	54
steroid alcohols, <i>a</i>	76	furnace lining	12
Oxygen , determination in gases, <i>a</i>	110	in election microscope, <i>a</i>	33
Palladium , black, formation	90	in fuel cells, <i>a</i>	36
crucibles for polymerisations, <i>a</i>	110	mining at Rustenburg, increased output	49
diffusion of H ₂ in, <i>a</i>	33, 70	oxidation	50, 107
for brazing, <i>a</i>	33	O ₂ potential on, <i>a</i>	33
in precision glaze resistors	22	reflecting films, <i>a</i>	73
oxidation, <i>a</i>	107	resistance changed by H ₂ , <i>a</i>	107
vapour pressure	134	resistivity after low-temperature	
Palladium Alloys , hydrogen diffusion, <i>a</i>	29	deformation, <i>a</i>	108
in fuel cells, <i>a</i>	36	thermal conductivity standard	13, 107
Palladium-Aluminium, crystal structure, <i>a</i>	70	thermal expansion coefficient, <i>a</i>	107
Palladium-Arsenic, constitution, <i>a</i>	108	thermodynamic properties, <i>a</i>	70
superconductivity, <i>a</i>	31	vapour pressure	134
Palladium-Cadmium, magnetic		valve parts in space I.C. engine	8
susceptibility, <i>a</i>	29	wave guide termination	15
Palladium-Cobalt-Manganese, melting		Platinum Alloys ,	
equilibrium, <i>a</i>	147	Platinum-Aluminium , structure, <i>a</i>	147
Palladium-Copper, solid solutions, <i>a</i>	29	Platinum-Chromium , magnetic properties	9
Palladium-Dysprosium, magnetic		Platinum-Cobalt , magnetic properties, <i>a</i>	147
properties, <i>a</i>	107	permanent magnets	82
Palladium-Gadolinium, magnetic properties, <i>a</i>	9, 107	Platinum-Cobalt-Chromium , ordering, <i>a</i>	147
Palladium-Holmium, magnetic properties, <i>a</i>	107	Platinum-Cobalt-Manganese , ordering, <i>a</i>	147
Palladium-Hydrogen, hysteresis, <i>a</i>	30	Platinum-Gold , effect of rhodium	133
Palladium-Indium, magnetic susceptibility, <i>a</i>	29	Platinum-Iridium , crucibles, <i>a</i>	74
		viscosity of glass apparatus, <i>a</i>	114
		Platinum-Iron , expansion and elasticity, <i>a</i>	29
		Platinum-Iron , thermodynamic properties, <i>a</i>	70
		Platinum-Manganese , magnetic properties	9
		Platinum-Molybdenum , phase relations, <i>a</i>	147
		Platinum-Niobium , crystal data, <i>a</i>	148
		superconducting phase, <i>a</i>	148
		Platinum-Palladium , absorption of	
		H ₂ and D ₂ , <i>a</i>	147

	<i>Page</i>		<i>Page</i>
Platinum Alloys (contd.)		Ruthenium, carbides not formed, <i>a</i>	148
Platinum-Rhodium, durability of		corrosion resistance	130
apparatus, <i>a</i>	33	crucibles for polymerisations, <i>a</i>	110
effect of Rh ₂ O ₃ , <i>a</i>	147	oxidation, <i>a</i>	107
furnace windings	66, 98	resistivity, <i>a</i>	108
in X-ray diffractometer furnace, <i>a</i>	74	semiconductors with P, S, Se, Te, Sb, As, <i>a</i>	71
losses in HNO ₃ manufacture	127	vapour deposition, <i>a</i>	149
Platinum-Silver, solid solutions, <i>a</i>	70	vapour pressure, <i>a</i>	30, 134, 148
Platinum-Tantalum, crystal data, <i>a</i>	148	Ruthenium Alloys, with refractory metals, <i>a</i>	31
Platinum-Thorium, constitution, <i>a</i>	71	Ruthenium-Boron, crystal structure, <i>a</i>	72
Platinum-Tungsten, strain gauges	128	Ruthenium-Cerium, magnetic properties	
Platinum Complexes, <i>a</i>	31, 72, 109	and superconductivity, <i>a</i>	108
Platinum Fluorides, properties, <i>a</i>	108	melting point of CeRu ₂ , <i>a</i>	30
Platinum Halides, thermodynamic properties, <i>a</i>	70	Ruthenium-Gadolinium, magnetism and	
Platinum Metals, alloy powders	140	superconductivity, <i>a</i>	108
carbonyl complexes, <i>a</i>	108	Ruthenium-Iridium, phase diagram, <i>a</i>	148
fluorides, oxides, oxyfluorides, <i>a</i>	31	Ruthenium-Lanthanum, melting point	
in electrochemistry	14	of LaRu ₂ , <i>a</i>	30
in fuel cells	42	Ruthenium-Molybdenum,	
magnetic properties of alloys	9	superconducting phase, <i>a</i>	148
organometallic compounds	16	Ruthenium-Nickel, mechanical properties, <i>a</i>	148
oxidation, <i>a</i>	31, 107	Ruthenium-Niobium, structure and	
oxyanions, <i>a</i>	31	properties, <i>a</i>	71
phthalocyanines	143	Ruthenium-Palladium, magnetic	
reactions with carbon	101	susceptibility, <i>a</i>	29
research by Klaus	67	Ruthenium-Praseodymium, melting	
superconductivity, <i>a</i>	108	point of PrRu ₃ , <i>a</i>	30
superconductors, <i>a</i>	31	Ruthenium-Tantalum, for nuclear	
Refractories, electrical resistance of	98	reactor use, <i>a</i>	31
Resistance Thermometers, platinum,		structure, <i>a</i>	30
miniature elements, <i>a</i>	115	Ruthenium-Thorium, constitution, <i>a</i>	71
Rhodium, coatings, stress and contamination	55	Ruthenium-Titanium, constitution, <i>a</i>	30
crucibles, <i>a</i>	110, 149	Ruthenium-Tungsten, constitution, <i>a</i>	148
effect on Au-Pt system	133	for nuclear reactor use, <i>a</i>	31
oxidation, <i>a</i>	107	Ruthenium-Zirconium, constitution, <i>a</i>	30
resistivity after cold work, <i>a</i>	108	Ruthenium Chloride, preparation and magnetic	
vapour pressure	134	properties, <i>a</i>	32
Rhodium Acetate, preparation and properties, <i>a</i>	32	Ruthenium Complexes	72, 106, 109
Rhodium Alloys, with refractory metals, <i>a</i>	31	Ruthenium Oxides, at high temperature <i>a</i>	72
Rhodium-Antimony, phase diagram, <i>a</i>	30	reaction of tetroxide with C ₂ H ₅ N, <i>a</i>	72
Rhodium-Arsenic, superconductivity, <i>a</i>	31	Ruthenium Tetrafluoride, preparation and	
Rhodium-Bismuth, constitution, <i>a</i>	30	properties, <i>a</i>	32
Rhodium-Copper, structure, <i>a</i>	108	Ruthenocene, deposition of Ru film, <i>a</i>	149
Rhodium-Iron, magnetic properties	9, 59, 108	Strain Gauges, in jet engines	128
Rhodium-Manganese, magnetic properties	9	Temperature Measurement, in steel making, <i>a</i>	77
Rhodium-Nickel, mechanical properties, <i>a</i>	148	Pt film probes	146
structure, <i>a</i>	71, 108	Thermal Conductivity, Pt reference standard	13
Rhodium-Niobium, crystal data, <i>a</i>	148	Thermocouples, early history	23
superconducting phase, <i>a</i>	148	Iridium-Iridium-Rhodium, in microfurnace, <i>a</i>	153
Rhodium-Palladium, effect of Rh₂O₃, <i>a</i>	147	reference tables, <i>a</i>	114
magnetic susceptibility, <i>a</i>	29	Palladium-Iridium-Platinum,	
Rhodium-Platinum, durability of		reference tables, <i>a</i>	114
apparatus, <i>a</i>	33	Pallador, in dew-point meter, <i>a</i>	115
effect of Rh ₂ O ₃ , <i>a</i>	147	Platinel II, reference tables and stability, <i>a</i>	114
furnace windings	66, 98	Platinum-Rhodium-Platinum, calibration	145
in X-ray diffractometer furnace, <i>a</i>	74	in calorimeter, <i>a</i>	110
losses in HNO ₃ manufacture	127	in steel making, <i>a</i>	77
Rhodium-Tantalum, constitution, <i>a</i>	148	resistivity of refractories apparatus	98
Rhodium-Thorium, constitution, <i>a</i>	71	viscosity of glass apparatus, <i>a</i>	114
Rhodium-Titanium, superconductivity, <i>a</i>	30, 108	Rhodium-Platinum:Rhodium-Platinum,	
Rhodium-Zirconium, superconductivity, <i>a</i>	30, 108	in steel making, <i>a</i>	77
Rhodium Complexes, <i>a</i>	72, 109	Tritium Labelling	150
Rhodium Oxides, decomposition, <i>a</i>	147		
properties, <i>a</i>	109		