

C O N T E N T S

	<u>Pages</u>
Foreword 	i - vi
Introduction 	1
Bibliography 	42
PART - I, SOLVENT EXTRACTION OF NICKEL (II)	
Introduction 	48
Section - 1, Extraction and Spectrophotometric determination of nickel (II) with xanthates	
Introduction 	63
Section - 1.1, Extraction and Spectrophotometric determination of nickel (II) with pot-ethyl xanthate	
Experimental 	69
Results and Discussion 	73
Section - 1.2, Extraction and Spectrophotometric determination of nickel (II) with potassium butyl xanthate.	
Experimental 	84
Results and Discussion 	85
Section - 2, Extraction and Spectrophotometric determination of nickel (II) with benzil - α - monoxime.	

C O N T E N T S

	<u>Pages</u>
Introduction	94
Experimental	94
Results and Discussion	96
Bibliography	105

PART - II, SOLVENT EXTRACTION OF PALLADIUM(II)

Introduction	113
Section - 1, Liquid-liquid extraction of palladium(II) with ethyl acetate	
Introduction	130
Experimental	133
Results and Discussion	134
Section - 2, Liquid-liquid extraction of palladium(II) with triethyl amine, pyridine and substituted pyridines.	
Introduction	141
Experimental	142
Results and Discussion	143
Section - 3, Extraction and Spectrophotometric determination of palladium(II) with xanthates	

C O N T E N T S

	<u>Pages</u>
Introduction	152
Section - 3.1, Extraction and Spectrophotometric determination of palladium(II) with potassium ethyl xanthate	
Experimental	153
Results and Discussion	154
Section - 3.2, Extraction and Spectrophotometric determination of palladium(II) with potassium propyl xanthate	
Experimental	164
Results and Discussion	165
Section - 3.3, Extraction and Spectrophotometric determination of palladium(II) with potassium butyl xanthate	
Experimental	173
Results and Discussion	174
Section-3.4, Extraction and Spectrophotometric determination of palladium(II) with potassium benzyl xanthate	
Experimental	181
Results and Discussion	182

C O N T E N T S

Pages

Section - 4, Extraction and Spectrophotometric
determination of palladium(II) with α -benzoin
oxime

Introduction ...	...	...	189
Experimental ...	...	...	193
Results and Discussion ...	...	...	194

Section - 5, Extraction and Spectrophotometric
determination of palladium(II) with diacetyl
monoxime

Introduction ...	...	...	203
Experimental ...	...	...	203
Results and Discussion ...	...	...	204
Bibliography ...	...	...	211

PART - III, SOLVENT EXTRACTION OF PLATINUM(IV)

Introduction	219
------------------	-----	-----	-----

Section - 1, Extraction and Spectrophotometric
determination of platinum (IV) with α -benzoin
oxime

Introduction ...	...	...	224
Experimental ...	...	...	224
Results and Discussion ...	...	...	226

C O N T E N T S

Pages

Section - 2, Extraction and Spectrophotometric
determination of platinum(IV) with benzil- α -
monoxime

Introduction ...	...	...	232
Experimental ...	...	...	232
Results and Discussion	...	...	233
Bibliography ...	...	...	240

PART - IV, SOLVENT EXTRACTION OF RHODIUM(III)

Introduction	241
------------------	-----	-----	-----

Section - 1, Extraction and Spectrophotometric
determination of rhodium(III) with α -benzoin
oxime

Introduction ...	...	...	245
Experimental ...	...	...	245
Results and Discussions	...	...	247

Section - 2, Extraction and Spectrophotometric
determination of rhodium(III) with benzil- α -
monoxim

C O N T E N T S

	<u>Pages</u>
Introduction	254
Experimental	254
Results and Discussion	255
Bibliography	262

APPENDIX (List of Publications and Reprints).