

CONTENTS

INTRODUCTION	7
SYNTHESIS	9
Classical Methods of Production	9
Commercial Production	10
PHYSICAL PROPERTIES	11
Sodium Ferrocyanide	11
Potassium Ferrocyanide	15
Structure of the Ferrocyanides	24
CHEMICAL PROPERTIES	27
Sodium and Potassium Ferrocyanides	27
The Ferrocyanide Ion	31
HYDROFERROCYANIC ACID	63
Physical Properties	63
Chemical Properties	64
APPLICATIONS	67
Analytical Chemistry	67
Blueprints	68
Case Hardening and Heat Treating	68
Chemical Synthesis	69
Chemotherapy	72
Corrosion Inhibition	72
Desulfurization of Gas	73
Detergents	73
Dyeing of Textiles	73
Electrical Equipment	75
Electroplating	75
Mineral Dressing	76
Mirror Manufacture	78
Mortar	78
Pesticides	78
Petroleum	78

Photography	78
Pigments	79
Pickling of Steel	79
Rubber	79
Separation and Identification of Organic Bases	80
Trace-Metal Removal	81
Miscellaneous Applications	82
METHODS OF ANALYSIS	83
Qualitative Detection	83
Quantitative Determination	84
TOXICITY	87
Precautions	88
BIBLIOGRAPHY	89
INDEX	106