TABLE OF CONTENTS

| Preface | vii |
|--|-----|
| Kinetics of the Ferric Chloride Leaching of Silver, Antimonian Silver, and Silver Chloride J.E. Dutrizac | 1 |
| Kinetics and Solution Chemistry in the Leaching of Ilmenite by Hydrochloric AcidA Partial Equilibrium Model R.J. Orth and K.C. Liddell | 23 |
| Mathematical Model for the Leaching Kinetics of Zinc Oxide in Acid Solutions N. Ranjan, F.M. Doyle, and E. Peters | 49 |
| A Rate Equation for the Initial Stage of the Leaching of CuFeS ₂ by Aqueous FeCl ₃ , HCl, and NaCl | 67 |
| M.L. O'Malley and K.C. Liddell | 67 |
| J.F. Rauld, R.J. Montealegre, P.N. Schmidt, and E.M. Domic | 75 |
| Reactor Design for Aqueous-Solid Reactions Patrick R. Taylor and G. P. Martins | 105 |
| Liquid Velocities in Air-Agitated (Pachuca) Tanks R. Shekhar and J.W. Evans | 121 |
| Kinetics of Pyrite Oxidation by Oxygen in Sodium Carbonate Solution V.S.T. Ciminelli and K. Osseo-Asare | 129 |
| The Kinetics of Leaching of Chalcopyrite and Pyrite Grains in Primary Copper Ore by Dissolved Oxygen H.K. Lin, H.Y. Sohn, and M.E. Wadsworth | 149 |
| Pressure Leaching of Copper from Primary Chalcopyrite Ore under Simulated Solution-Mining Conditions H.K. Lin and H.Y. Sohn | 169 |
| Hydrolysis and Precipitation of Iron during Pressure Leaching of Zinc Sulphide Materials Hernando Arauco and Fiona M. Doyle | 187 |
| Modeling and Simulation of a Batch Reactor for an Oxygen Pressure Leaching System V.G. Papangelakis, D. Berk, and G. P. Demopoulos | 209 |
| A Process for Enriching Chalcopyrite Concentrates R.W. Bartlett, D.B. Willson, B.J. Savage, and R. J. Wesely | 227 |

| Kinetics of Leaching Gold and Silver in Acidic Thiourea Solutions | - |
|--|----------|
| J.C. Huyhua and I.H. Gundiler | 247 |
| Electrochemical and Other Aspects of the Indirect- Electrooxidation Process for Leaching of Molybdenite by Hypochlorite | |
| P.F. Jorge and G.P. Martins | 265 |
| Predicting the Rate of Galvanic Interactions from Electrochemical Polarization Curves D.A. Jones and A.J.P. Paul | 293 |
| Electrochemical Behavior of Mineral and Coal Pyrite in Acidic Solution | 207 |
| K.K. Mishra, O.M. Ogunsola, and K. Osseo-Asare | 307 |
| Rate Processes in Solvent Extraction: Model Experiments Using a Two-Dimensional Organic Phase D.J. Chaiko and K. Osseo-Asare | 321 |
| A Comparative Study on the Recovery of Gold by Ion | |
| Exchange and Activated Carbon V.I. Lakshmanan and G.M. Ritchey | 333 |
| Transport of Platinum (IV) through Supported Liquid | |
| Membrane Containing Trioctylamine Carrier Tadaaki Nishiki and Renato G. Bautista | 347 |
| Application of Electrochemical Tracer Techniques for Determining Mass Transfer Conditions during Metal Deposition | |
| T.J. O'Keefe, S.F. Chen, J.S. Cuzmar, and V.A. Ettel | 359 |
| The Electrowinning of Dilute Zinc Sulfate Solutions in a Fluidized Bed Electrochemical Reactor | |
| Richard Z. Squillace and Renato G. Bautista | 373 |
| Advances in the Design of Electrolytic Reactors R.J. Wesely | 389 |
| The Coprecipitation Kinetics of Co(II) and Ni(II) with Al(III) and Fe(III) in Ammoniacal Solutions | |
| K.N. Han and W. Ahmad | 401 |
| Reactions and Possible Reactor for the Precipitation of Metal Sulfides Using Thioacetamide R. Crowell, C. Nesbitt, J. Hendrix, and J. Nelson | 421 |
| | 421 |
| Aqueous Precipitation in Hydrometallurgy Lawrence Burkhart and James Voigt | 441 |
| Subject Index | 457 |
| Author Index | 450 |