
Table of Contents

Chapter 1	The n-Butylammonium Vermiculite System	1
References		23
Chapter 2	The Coulombic Attraction Theory of Colloid Stability	25
References		35
Chapter 3	Force-Distance Curves for Plate Macroions	37
References		56
Chapter 4	Membrane Equilibria for Interacting Macroions	57
References		75
Chapter 5	The Sol Concentration Effect in Clay Swelling	77
References		93
Chapter 6	The Exact Mean Field Theory Solution for Plate Macroions	95
References		124
Chapter 7	Criticisms and Refutations	127
References		140
Chapter 8	The Structure of a Dressed Macroion in Solution	143
References		157
Chapter 9	The Counterion Distribution between Charged Plates in Solution	159
References		174

Chapter 10	Freezing Experiments on n-Butylammonium Vermiculite Gels.....	177
References.....		192
Chapter 11	The Effect of Adding Polymers to the Vermiculite System	193
References.....		205
Chapter 12	The Mechanism and Strength of Polymer Bridging Flocculation	207
References.....		225
Chapter 13	The Structure of Bridging Polymers	227
References.....		241
Index		243