Record Nr. UNINA9910831068103321 Autore Masliyah Jacob H Titolo Electrokinetic and colloid transport phenomena [[electronic resource] /] / Jacob H. Masliyah, Subir Bhattacharjee Hoboken, N.J., : Wiley-Interscience, c2006 Pubbl/distr/stampa **ISBN** 1-280-51753-0 9786610517534 0-470-35399-6 0-471-79974-2 0-471-79973-4 Descrizione fisica 1 online resource (733 p.) Altri autori (Persone) BhattacharjeeSubir <1967-> Disciplina 530.475 Soggetti Electrokinetics Electric double layer Colloids - Electric properties Transport theory Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. ELECTROKINETIC AND COLLOID TRANSPORT PHENOMENA: CONTENTS: Nota di contenuto PREFACE; COPYRIGHT ACKNOWLEDGMENTS; CHAPTER 1 MATHEMATICAL PRELIMINARIES: 1.1 Units: 1.2 Physical Constants and Conversion Factors; 1.3 Frequently used Functions; 1.4 Vector Operations; 1.5 Tensor Operations; 1.6 Vector and Tensor Integral Theorems: 1.6.1 The Divergence and Gradient Theorems: 1.6.2 The Stokes Theorem; 1.7 References; CHAPTER 2 COLLOIDAL SYSTEMS; 2.1 The Colloidal State; 2.2 Colloidal Phenomena; 2.3 Stabilization of Colloids; 2.4 Preparation of Colloidal Systems; 2.4.1 Dispersion Methods: 2.4.2 Condensation Methods 2.5 Purification of Sols2.6 A Historical Summary; 2.7 Electrokinetic Phenomena in Modern Colloid Science; 2.8 Nomenclature; 2.9 References; CHAPTER 3 ELECTROSTATICS; 3.1 Basic Electrostatics in Free Space; 3.1.1 Fundamental Principles of Electrostatics; 3.1.2 Electric

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A new, definitive perspective of electrokinetic and colloid transport processesResponding to renewed interest in the subject of electrokinetics, Electrokinetic and Colloid Transport Phenomena is a timely overview of the latest research and applications in this field for both the beginner and the professional. An outgrowth of an earlier text (by coauthor Jacob Masliyah), this self-contained reference provides an up-to-date summary of the literature on electrokinetic and colloid transport phenomena as well as direct pedagogical insight into the development of the subject over the past se