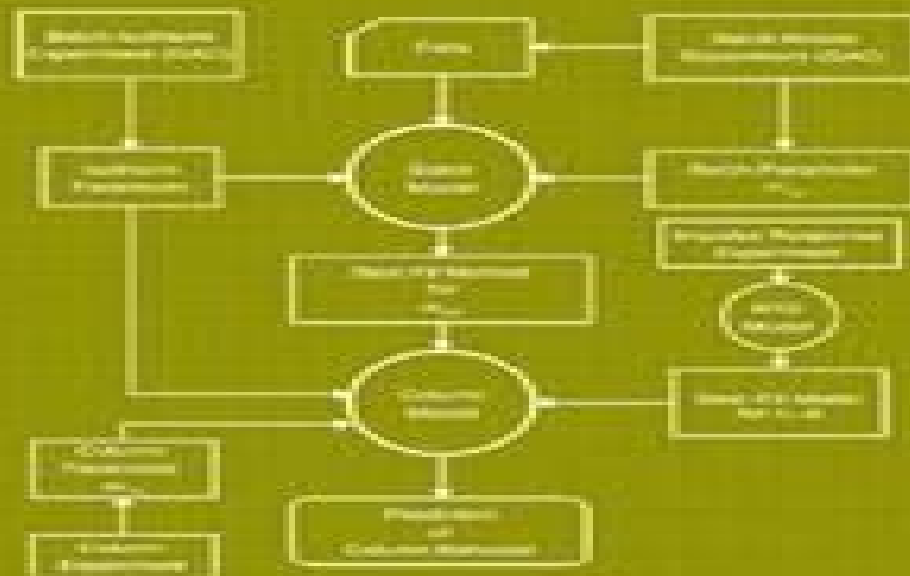


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Sorbent Deformation Andrei V. Tvardovskiy, 2006-09-25 *Sorbent Deformation* discusses the theoretical and experimental study of the deformation of solid bodies during their ad or absorptive interaction with gases or vapours The book is the first monograph which deals with the problem of ad and absorbent non inertness compiled from a 15 year study by the author on swelling or deformed ad and absorptive systems The results from the study are of practical and scientific value to engineers and scientists in the areas of physical chemistry chemical engineering and environmental control They could also be of interest to those looking to solve problems in such areas as forecasting technological processing and fuel drying stimulation Provides novel practical information on the behaviour of the systems used in environment control Presents the derivation of the equation describing single and multicomponent adsorption and absorption in swelling deformed systems Identifies the results of direct measurements on ad and absorbent deformations charcoals clay minerals organic cation substituted clay minerals etc with a new high sensitivity method Surface and Interface Science, Volumes 5 and 6 Klaus

Wandelt, 2016-03-14 In eight volumes *Surface and Interface Science* covers all fundamental aspects and offers a comprehensive overview of this research area for scientists working in the field as well as an introduction for newcomers Volume 5 *Solid Gas Interfaces I* Topics covered Basics of Adsorption and Desorption Surface Microcalorimetry Adsorption of Rare Gases Adsorption of Alkali and Other Electro Positive Metals Halogen adsorption on metals Adsorption of Hydrogen Adsorption of Water Adsorption of Small Molecules on Metal Surfaces Surface Science Approach to Catalysis Adsorption Bonding and Reactivity of Unsaturated and Multifunctional Molecules Volume 6 *Solid Gas Interfaces II* Topics covered Adsorption of Large Organic Molecules Chirality of Adsorbates Adsorption on Semiconductor Surfaces Adsorption on Oxide Surfaces Oscillatory Surface Reactions Statistical Surface Thermodynamics Theory of the Dynamics at Surfaces Atomic and Molecular Manipulation *Vanadium in Soils and Plants* Jörg Rinklebe, 2022-08-17 Vanadium is an essential element for

humans and animals The toxicity of vanadium at higher concentrations could be a global environmental concern and a significant issue for both environmental protection and economic benefits The relevance of anthropogenic vanadium in the environment has increased significantly in recent years due to an increased demand for vanadium in high temperature industrial activities This book summarizes vanadium s current research and explains its behavior and mobilization in the environment especially in soils sediments water and plants Through case studies from various countries it discusses critical limits set and risk assessment approaches and remediation approaches of vanadium contaminated soils FEATURES Provides a comprehensive overview of vanadium in the total environment Covers the role of vanadium in various environments such as soils sediments water and plants Includes bioavailability studies and further case studies from various countries around the world Focuses on a better understanding of biogeochemical processes of vanadium Is written by international experts who present the current stage of the knowledge including innovative remediation and management approaches of vanadium

contaminated sites This book will be of use to upper level undergraduate and graduate students taking courses in soil science environmental science soil ecology water science plant science ecotoxicology geology and geography as well as scientists lecturers environmental and technical engineers ecologists applied ecological scientists and managers *Particles at Interfaces* Zbigniew Adamczyk, 2017-10-27 Particles and Interfaces Interaction Deposition Structure Volume 20 Second Edition unifies particle and protein adsorption phenomena by presenting recent developments in this growing field of nanoscience While experimental data is available in vast quantities there is a deficit in quality interpretation of that data This title provides such information emphasizing the basic physics behind practical problems thus empowering the reader to estimate relevant effects The book includes solved problems of particle transport under non linear conditions and their relevance to predicting protein adsorption including an entirely new chapter devoted to polyelectrolyte and protein adsorption at solid liquid and solid gas interfaces Unifies information from various fields such as electrostatics hydrodynamic colloid science and biophysics Presents information in a user friendly manner including computer aided graphics and schematic drawings Applies a phenomenological approach to the content and provides readily accessible reference data

Advances in Technologies for Producing Food-relevant Polyphenols Jose Cuevas Valenzuela, Jose Rodrigo Vergara-Salinas, Jose Ricardo Perez-Correa, 2016-09-19 The growing concern for human wellbeing has generated an increase in the demand for polyphenols secondary plant metabolites that exhibit different bioactive properties This increasing demand is mainly due to the current applications in the food industry where polyphenols are considered essential for human health and nutrition *Advances in Technologies for Producing Food relevant Polyphenols* provides researchers scientists engineers and professionals involved in the food industry with the latest methodologies and equipment useful to extract isolate purify and analyze polyphenols from different available sources such as herbs flora vegetables fruits and agro industrial wastes Technologies currently used to add polyphenols to diverse food matrices are also included This book serves a reference to design and scale up processes to obtain polyphenols from different plant sources and to produce polyphenol rich foods with bioactive properties e g antioxidant antibacterial antiviral anticancer properties of interest for human health and wellbeing

Nanoscience for the Conservation of Works of Art Piero Baglioni, David Chelazzi, 2015-11-09 Understanding the chemistry behind works of art and heritage materials presents an opportunity to apply scientific techniques to their conservation and restoration Manipulation of materials at the nanoscale affords greater accuracy and minimal disturbance to the original work while efficiently combating the affects of time and environment This book meets the growing demand for an all encompassing handbook to instruct on the use of today s science on mankind s cultural heritage The editors have pioneered modern techniques in art conservation over the last four decades and have brought together expertise from across the globe Each chapter presents the theoretical background to the topic in question followed by practical information on its application and relevant case studies Introductory chapters present the science behind the physical composition of art materials Four

chapters explore various cleaning techniques now followed by four chapters describing the application of inorganic nanomaterials Each chapter is fully referenced to the primary literature and offers suggestions for further reading Professional conservators and scientists alike will find this essential reading as will postgraduate students in the fields of materials and colloid science art restoration and nanoscience

Solid State Electrochemistry II Vladislav V. Kharton, 2012-12-21 The ideal addition to the companion volume on fundamentals methodologies and applications this second volume combines fundamental information with an overview of the role of ceramic membranes electrodes and interfaces in this important interdisciplinary and rapidly developing field Written primarily for specialists working in solid state electrochemistry this first comprehensive handbook on the topic focuses on the most important developments over the last decade as well as the methodological and theoretical aspects and practical applications This makes the contents equally of interest to material physical and industrial scientists and to physicists Also available as a two volume set

Handbook of Detergents - 6 Volume Set Uri Zoller, 2008-11-23 With contributions from experts and pioneers this set provides readers with the tools they need to answer the need for sustainable development faced by the industry The six volumes constitute a shift from the traditional mostly theoretical focus of most resources to the practical application of advances in research and development With con

Subsurface Solute Transport Models and Case Histories Vyacheslav G. Rumynin, 2012-01-14 The book addresses the development of the basic knowledge of the subsurface solute transfer with a particular emphasis on field data collection and analysis coupled with modeling analytical and numerical tool application The relevant theoretical developments are concerned mainly with the formulation and solution of deterministic mass transport equations for a wide range of engineering issues in groundwater quality assessment and forecasting The book gives many computational examples and case studies drawn from the conducted field investigations The analyzed problems are as follows investigation and prediction of groundwater contamination by industrial contaminants and solutions radionuclides chloride and nitrate brine with special focus on the effect of a aquifer heterogeneity anisotropy and dual porosity b density contrast existing between industrial waste and groundwater or in density stratified artesian and coastal groundwater systems c physicochemical interactions that play a major role in retarding e g adsorption or enhancing e g interactions between dissolved species and mobile colloids contaminant transport prediction of the effects of pumping on groundwater quality at wellfields groundwater dating using stable and radioactive isotopes for prediction and assessment of contamination potential field and laboratory tests design and analysis and monitoring data interpretation partitioning of surface and subsurface flows using isotope techniques One of the most essential topics addressed in the book is the migration and fate of radionuclides Model development is motivated by field data analysis from a number of radioactively contaminated sites in the Russian Federation near surface radioactive waste disposal sites and deep well radioactive waste injection sites They play a unique role in the advancement of knowledge of the subsurface behavior and fate of many hazardous radionuclides and can be considered as

field scale laboratories Thus the book along with theoretical findings contains field information which will facilitate the understanding of subsurface solute transport and the development of a methodology for practical applications to groundwater hydrology *Annales Universitatis Mariae Curie-Skłodowska* ,2006

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