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Surface And Colloid Science Volume 1

Egon Matijevic, R.J. Good



Surface And Colloid Science Volume 1:

Encyclopedia of Surface and Colloid Science - Arthur T. Hubbard, 2002-07-18 This comprehensive reference collects fundamental theories and recent research from a wide range of fields including biology biochemistry physics applied mathematics and computer materials surface and colloid science providing key references tools and analytical techniques for practical applications in industrial agricultural and forensic processes as well as in the production of natural and synthetic compounds such as foods minerals paints proteins pharmaceuticals polymers and soaps Surface and Colloid Science Egon Matijevic, R.J. Good, 2012-12-06 Ever since the first volume appeared in 1969 this series has received good reviews in a variety of periodicals published in different corners of the world It would seem that the work has fulfilled its purpose as outlined in the Preface to Volume 1 The rapidly increasing interest in surface and colloid science by people engaged in industrial research and development and in environmental ecological medical pharmaceutical and other areas justifies the continuation of such an effort The Surface and Colloid Science series originated with John Wiley and Sons and has been continued with Plenum Press This volume is the third with the present publisher and is the best assurance of our mutual interest to proceed with this work Some books in the series as was the case with Volume 11 may appear under the editorship of other workers in the field For reasons of continuity a sequential numbering system will be maintained This editor hopes to provide the scientific and technical community with high quality contributions in surface and colloid science in the future He invites specialists to submit definitive chapters on any topic within the broad area of our discipline for inclusion in this series

Encyclopedia of Surface and Colloid Science P. Somasundaran, 2006 **Surface and Colloid Science** Egon Matijevic, 2012-12-12 Ever since the first volume appeared in 1969 this series has received good reviews in a variety of periodicals published in different corners of the world It would seem that the work has fulfilled its purpose as outlined in the Preface to Volume 1 The rapidly increasing interest in surface and colloid science by people engaged in industrial research and development and in environmental ecological medical pharmaceutical and other areas justifies the continuation of such an effort After nine volumes with John Wiley and Sons this and subsequent volumes will by mutual consent be published by Plenum Press The editor will do his best to maintain and if possible improve the quality of the contributions While the fundamental philosophy will be preserved some moderate graphical changes have taken place These changes were done to enhance the readability and uniformity of the volumes Occasionally volumes may appear under the editorship of other scientists in the field These volumes will be mainly devoted to techniques in surface and colloid science For reasons of continuity a sequential numbering system will be used Surface and Colloid Science Egon Matijevic, 2014-01-15 The three sections of this volume deal with topics of broad interest The first deals with cetyl alcohol and is a most comprehensive study of this essential ingredient in the cosmetic and pharmaceutical industry with an explanation of its functionality The second is a most comprehensive up to date review of acid base interactions of a variety of materials including small molecules proteins

and polyelectrolytes The third section describes the combined radiochemical and electrochemical methods in the evaluation of the properties of solids in contact with solutions

Encyclopedia of Surface and Colloid Science, 2004 Update
Supplement P. Somasundaran, 2004-08-11 Appending the Encyclopedia of Surface and Colloid Science by 42 entries as well as 3800 new citations 1012 equations and 485 illustrations and chemical structures this important supplement summarizes a constellation of new theoretical and experimental findings related to chemical characterization mechanisms interfacial behavior methods and modeling and applications

Encyclopedia of Surface and Colloid Science: Dif-Int Arthur T. Hubbard, 2002

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

Encyclopedia of Surface and Colloid Science: Inv-Pol Arthur T. Hubbard, 2002

Surface and Colloid Science R. Good, 2012-04-26 Surface science and colloid science are preeminently experimental subjects They constitute complementary aspects of a field which has been notably active since World War II there is every reason to expect that the level of activity will continue to rise in the coming decades so it is timely to review certain experimental methods of surface and colloid science as they exist and to evaluate and refine those methods This volume and others that will follow are principally concerned with experimental methods The working scientist needs access to the latest techniques of course He also needs to learn of the potentialities of recently developed techniques which he may not have been aware of Equally important or perhaps even more so he needs to learn of the pitfalls of existing methods One might say wistfully that it would be nice to be able to pick up somebody's description of a new piece of apparatus to go into the laboratory to build it and to have it work the first time There is however a serious problem of the interaction between the experiment per se and the theory for which the experiment is designed Very often this interaction renders problematic the interpretation of direct observations An example from experience of the senior editor of this volume is the question of contact angle hysteresis See Chapters 1 and 2

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