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# Dynamic Surface Tensiometry in Medicine

V.N. Kazakov, O.V. Sinyachenko,  
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R. Miller

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# Dynamic Surface Tensiometry In Medicine

**P. Somasundaran**



## **Dynamic Surface Tensiometry In Medicine:**

Dynamic Surface Tensiometry in Medicine V.N. Kazakov,O.V. Sinyachenko,V.B. Fainerman,U. Pison,R. Miller,2000-01-28 Human biological liquids contain numerous low and high molecular weight surfactants The human organism contains interfaces with enormous surfaces The physicochemical and biochemical processes taking place at these interfaces are extremely important for the vital functions of the organism as a whole and the interfacial properties may reflect peculiarities of age and sex health and disease The present book is the first attempt to systematically present the results of dynamic and equilibrium surface tensions measurements of serum and urine samples that were obtained from healthy humans of various sex and age and to compare these results with measurements of biological liquids obtained from patients suffering from various diseases or with measurements of amniotic fluid obtained from women at various stages of pregnancy Pulmonary medicine especially neonatology has systematically used interfacial tensiometry for studying pulmonary surfactant In this particular area significant progress was achieved in the treatment of diseases related to alterations of the lung surfactant system We believe that similar to the progress in pulmonary medicine attributed to surface chemical studies of lung surfactant progress in other medical branches could be expected through studies of interfacial characteristics of other human biological liquids For several years the authors of this book have been engaged in studies aimed at the improvement of the maximum bubble pressure method resulting in the development of computer controlled tensiometers which are capable of measuring dynamic surface tensions within a wide range of surface lifetime In addition to the measurement techniques a correct interpretation and analysis of the tensiometric data obtained is extremely important The kinetic theory of adsorption from solutions and the theory of equilibrium adsorption layers of surfactant protein mixtures provide the basis for both the choice of the most characteristic parameters of tensiograms and the analysis of the results Some theoretical models describing the adsorption of proteins are presented in Chapter 1 The main theoretical and experimental issues related to the maximum bubble pressure technique as applied to biological liquids are presented in Chapter 2 A more detailed discussion of the differences of the various methods in use for measuring dynamic surface tension of biological fluids is provided in Chapter 3 Chapter 4 gives data from patients with kidney disease Chapter 5 from patients with rheumatic diseases Chapter 6 with pulmonary diseases Chapter 7 with diseases of the central nervous system and Chapter 8 with neoplasms Dynamic interface tensiometry of human biological liquids is a fascinating new method which deserves a broad use for prospective studies of various diseases Encyclopedia of Surface and Colloid Science P. Somasundaran,2006

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

*Introduction to Modern Biophysics* Mohammad Ashrafuzzaman, 2023-12-15 This textbook provides an introduction to the fundamental and applied aspects of biophysics for advanced undergraduate and graduate students of physics chemistry and biology The application of physics principles and techniques in exploring biological systems has long been a tradition in scientific research Biological systems hold naturally inbuilt physical principles and processes which are popularly explored Systematic discoveries help us understand the structures and functions of individual biomolecules biomolecular systems cells organelles tissues and even the physiological systems of animals and plants Utilizing a physics based scientific understanding of biological systems to explore disease is at the forefront of applied scientific research This textbook covers key breakthroughs in biophysics whilst looking ahead to future horizons and directions of research It contains models based on both classical and quantum mechanical treatments of biological systems It explores diseases related to physical alterations in biomolecular structures and organizations alongside drug discovery strategies It also discusses the cutting edge applications of nanotechnologies in manipulating nanoprocesses in biological systems

**Key Features** Presents an accessible introduction to how physics principles and techniques can be used to understand biological and biochemical systems Addresses natural processes mutations and their purposeful manipulation Lays the groundwork for vitally important natural scientific technological and medical advances

**Cumulated Index Medicus**, 2000 **American Book Publishing Record**, 2000-07 **Russian Journal of Physical Chemistry**, 2003 *The British National Bibliography* Arthur James Wells, 2000 Handbook of Applied Surface and Colloid Chemistry Krister Holmberg, Dinesh Ochhavlal Shah, Milan J. Schwuger, 2002 International Workshop on Nonlinear Dynamics and Structures in Biology and Medicine: Optical and Laser Technologies Valeriĭ Viktorovich Tuchin, Institute of Precision Mechanics and Control (Rossiĭskaiĭ akademiĭ nauk), Society of Photo-optical Instrumentation Engineers, 1997

**Handbook of Surfaces and Interfaces of Materials: Surface and interface phenomena** Hari Singh Nalwa, 2001 This handbook brings together under a single cover all aspects of the chemistry physics and engineering of surfaces and interfaces of materials currently studied in academic and industrial research It covers different experimental and theoretical aspects of surfaces and interfaces their physical properties and spectroscopic techniques that have been applied to a wide class of inorganic organic polymer and biological materials The diversified technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and their spectroscopic characterization The large volume of experimental data on chemistry physics and engineering aspects of materials surfaces and interfaces remains scattered in so many different periodicals therefore this handbook compilation is needed The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic These five volumes Surface and Interface Phenomena Surface Characterization and Properties Nanostructures Micelles and Colloids Thin Films and Layers

Biointerfaces and Applications provide multidisciplinary review chapters and summarize the current status of the field covering important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world Fully cross referenced this book has clear precise and wide appeal as an essential reference source long due for the scientific community The complete reference on the topic of surfaces and interfaces of materials The information presented in this multivolume reference draws on two decades of pioneering research Provides multidisciplinary review chapters and summarizes the current status of the field Covers important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques Contributions from internationally recognized experts from all over the world

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