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# Dynamic Surface Tensiometry in Medicine

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R. Miller

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# Dynamic Surface Tensiometry In Medicine

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Shah, Milan J. Schwuger**



## **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

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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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el camino de santiago ha sido recorrido durante siglos por millones de peregrinos venidos de todo el mundo algunos atraídos por su espiritualidad otros por conocer media españa al ritmo de sus pasos y la mayoría buscando que la peregrinación sea el