

Mathematical Theory of Electrophoresis

V. G. Babskii
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V. I. Yudovich

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Roland Glowinski, Jean-Paul Zolesio



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The development of contemporary molecular biology with its growing tendency toward in depth study of the mechanisms of biological processes structure function and identification of biopolymers requires application of accurate physicochemical methods Electrophoresis occupies a key position among such methods A wide range of phenomena fall under the designation of electrophoresis in the literature at the present time One common characteristic of all such phenomena is transport by an electric field of a substance whose particles take on a net charge as a result of interaction with the solution The most important mechanisms for charge generation are dissociation of the substance into ions in solution and for mation of electrical double layers with uncompensated charges on particles of dispersed medium in the liquid As applied to the problem of separation purification and analysis of cells cell organelles and biopolymers there is a broad classification of electrophoretic methods primarily according to the methodological characteristics of the process the types of supporting media etc An extensive literature describes the use of these methods for the investigation of different systems A number of papers are theoretical in nature Thus the microscopic theory has been developed rather completely 13 by considering electrophoresis within the framework of electrokinetic phenomena based on the concept of the electrical double layer

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Dynamics of Internal Layers and Diffusive Interfaces Paul C. Fife,1988-01-01 Interfacial phenomena are commonplace in physics chemistry biology and in various disciplines bridging these fields They occur whenever a continuum is present which can exist in at least two different chemical or physical states and there is some mechanism which generates or enforces a spatial separation between these states The separation boundary is then called an interface In the examples studied here the separation boundary and its internal structure result from the balance between two opposing tendencies a diffusive effect which attempts to mix and smooth the properties of the material and a physical or chemical mechanism which works to drive it to one or the other pure state This volume is unique in that the treatment of flames as well as internal layer dynamics including curvature effects is more detailed and systematic than in publications **Mathematical Challenges**

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non specialists it documents some prominent examples of past successful cross fertilizations between the fields and explores the mathematical research opportunities in a broad cross section of chemical research frontiers It also discusses cultural differences between the two fields and makes recommendations for overcoming those differences and generally promoting this interdisciplinary work

Capillary Electromigration Separation Methods Colin F. Poole, 2018-04-13 Capillary Electromigration Separation Methods is a thorough encompassing reference that not only defines the concept of contemporary practice but also demonstrates its implementation in laboratory science Chapters are authored by recognized experts in the field ensuring that the content reflects the latest developments in research Thorough comprehensive coverage makes this the ideal reference for project planning and extensive selected referencing facilitates identification of key information The book defines the concept of contemporary practice in capillary electromigration separation methods also discussing its applications in small mass ions stereoisomers and proteins Edited and authored by world leading capillary electrophoresis experts Presents comprehensive coverage on the subject Includes extensive referencing that facilitates the identification of key research developments Provides more than 50 figures and tables that aid in the retention of key concepts

Cell Electrophoresis Johann Bauer, 2020-07-24 This book presents a summary of the application and instrumentation of cell electrophoresis The method of making cell purification and characterization possible according to the cellular negative surface charge density is discussed and ideas for future developments are explained The negative electrostatic forces at cell surfaces provide information about cell cell interaction blood vessel sealing cytokine actions cell transformation ion transport phenomena and other biological phenomena Recalculations of the physical principles of cell electrophoresis reveal possibilities for removing disruptive factors caused by electrical current heat and sedimentation The introduction of computer technology the performance of simultaneous two parameter measurements and the application of cell friendly but current inert buffer systems render the method more reliable and efficient

The Dynamics of Electrophoresis Richard A. Mosher, D. A. Saville, Wolfgang Thormann, 1992 Presents a theory of electrophoresis based on a unique combination of computer simulation and experimental data For chromatographers separation scientists and chemical engineers describes a unified mathematical model that handles weak and strong acids and bases ampholytes and proteins and covers the four electrophoretic techniques isoelectric focusing isotachopheresis and zone and moving boundary electrophoreses Also useful in demonstrating a new approach to constructing a model Annotation copyright by Book News Inc Portland OR

Mathematics of the USSR: Izvestija, 1991 Nonlinear Problems in Mathematical Physics and Related Topics I Michael Sh. Birman, Stefan Hildebrandt, Vsevolod A. Solonnikov, Nina N. Uraltseva, 2012-12-06 The new series International Mathematical Series founded by Kluwer Plenum Publishers and the Russian publisher Tamara Rozhkovskaya is published simultaneously in English and in Russian and starts with two volumes dedicated to the famous Russian mathematician Professor Olga Aleksandrovna Ladyzhenskaya on the occasion of her 80th birthday O A

Ladyzhenskaya graduated from the Moscow State University But throughout her career she has been closely connected with St Petersburg where she works at the V A Steklov Mathematical Institute of the Russian Academy of Sciences Many generations of mathematicians have become familiar with the nonlinear theory of partial differential equations reading the books on quasilinear elliptic and parabolic equations written by O A Ladyzhenskaya with V A Solonnikov and N N Uraltseva Her results and methods on the Navier Stokes equations and other mathematical problems in the theory of viscous fluids nonlinear partial differential equations and systems the regularity theory some directions of computational analysis are well known So it is no surprise that these two volumes attracted leading specialists in partial differential equations and mathematical physics from more than 15 countries who present their new results in the various fields of mathematics in which the results methods and ideas of O A Ladyzhenskaya played a fundamental role Nonlinear Problems in Mathematical Physics and Related Topics I presents new results from distinguished specialists in the theory of partial differential equations and analysis A large part of the material is devoted to the Navier Stokes equations which play an important role in the theory of viscous fluids In particular the existence of a local strong solution in the sense of Ladyzhenskaya to the problem describing some special motion in a Navier Stokes fluid is established Ladyzhenskaya s results on axially symmetric solutions to the Navier Stokes fluid are generalized and solutions with fast decay of nonstationary Navier Stokes equations in the half space are stated Application of the Fourier analysis to the study of the Stokes wave problem and some interesting properties of the Stokes problem are presented The nonstationary Stokes problem is also investigated in nonconvex domains and some L_p estimates for the first order derivatives of solutions are obtained New results in the theory of fully nonlinear equations are presented Some asymptotics are derived for elliptic operators with strongly degenerated symbols New results are also presented for variational problems connected with phase transitions of means in controllable dynamical systems nonlocal problems for quasilinear parabolic equations elliptic variational problems with nonstandard growth and some sufficient conditions for the regularity of lateral boundary Additionally new results are presented on area formulas estimates for eigenvalues in the case of the weighted Laplacian on Metric graph application of the direct Lyapunov method in continuum mechanics singular perturbation property of capillary surfaces partially free boundary problem for parametric double integrals

NASA Technical Memorandum United States. National Aeronautics and Space Administration,1992 *The Journal of the Australian Mathematical Society* Australian Mathematical Society,1975 **Encyclopedia of Microfluidics and Nanofluidics** Dongqing Li,2008-08-06 Covering all aspects of transport phenomena on the nano and micro scale this encyclopedia features over 750 entries in three alphabetically arranged volumes including the most up to date research insights and applied techniques across all areas Coverage includes electrical double layers optofluidics DNC lab on a chip nanosensors and more **Polyelectrolyte Solutions** Stuart Alan Rice,Mitsuru Nagasawa,1961 *Population Biology and Evolution* K. Wöhrmann,V. Löschcke,2012-12-06 This volume contains the papers presented at a symposium on popula tion

biology sponsored by the Deutsche Forschungsgemeinschaft It was held at the guest house of the University of Tübingen at Oberjoch on May 15-19 1983 Prior to this conference a small group of European biologists had met in Berlin June 1981 and Pavia September 1982 to discuss research problems on the borderline between population genetics and evolutionary ecology From the contributions and discussions at these meetings it became evident that the unification of approaches to evolutionary problems in population genetics and evolutionary ecology has not yet been successful and requires further efforts It was the consensus that a larger symposium with international participation would be helpful to confront and discuss the different approaches to population biology in order to assess where we are now and where we should be going As a result an organizational committee was formed F Christiansen S Jayakar V Loeschcke W Scharloo and K Wöhrmann to identify topics that seemed at least to them to be fruitful in tackling problems in population biology Consequently a number of colleagues were asked to participate in the meeting We have divided this book into chapters corresponding to the eight topics chosen The volume begins with the relation between genotype and phenotype and is followed by a chapter on quantitative genetics and selection in natural populations

Horizons of Biochemical Engineering Shuichi Aiba, 1988

This book provides an up to date comprehensive overview of the field of biochemical engineering It is edited by the distinguished co author of the classic textbook Biochemical Engineering which first established this area of interdisciplinary research and pioneered its extensive applications in fields such as microbiology pharmaceuticals chemicals engineering and food processing The contributors to this volume are leading researchers from around the world writing on subjects that include physiology kinetics DNA technology metabolites measurement and control and environmental protection While some of the chapters reflect on past achievements in biochemical engineering most report on contemporary research and plans for future progress

Polyploid Population Genetics and Evolution - From Theory to Practice Hans D. Daetwyler, Richard John Abbott, 2020-01-28

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