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Formulas are derived for the osmotic coefficient, the Donnan

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offering a huge pile of facts, the discovery-style exposition frequently asks the reader to reflect on "How could anything like that happen at all?" and then shows how science, and scientists, have proceeded incrementally to peel back the layers of mystery surrounding these beautiful mechanisms. Working through this book will give you an appreciation for how science has advanced in the past, and the skills and frameworks needed to push forward in the future. Additional topics include the statistical physics of diffusion; bacterial motility; self-assembly; entropic forces; enzyme kinetics; ion channels and pumps; the chemiosmotic mechanism and its role in ATP maintenance; and the discovery of the mechanism of neural signaling.

The next generation of oncological hyperthermia involves the

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medical innovation of selectively heating up the malignant cells of the body in a controlled way. The easily-distinguishable biophysical and physiological characteristics of cancer cells and their immediate environment are the focus of the targeted energy delivery of this treatment. This heterogenic heating concept breaks with the homogeneous nature of conventional hyperthermia, where an isothermally equal temperature is applied to the large surface area of a solid tumor. Due to its selectivity, the new concept enables the usage of a significantly lower energy, making it safer, less toxic, and easier to use. This book shows the challenges facing oncological hyperthermia, and highlights clinical results obtained in various countries. It also presents discussions about the theoretical basis of the method, adding some technical discussions and clarifying the most difficult points of its design. The contributions

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The definitive guide to mass spectrometry techniques in biology and biophysics The use of mass spectrometry (MS) to study the architecture and dynamics of proteins is increasingly common within the biophysical community, and *Mass Spectrometry in Structural Biology and Biophysics: Architecture, Dynamics, and Interaction of Biomolecules, Second Edition* provides readers with detailed, systematic coverage of the current state of the art. Offering an unrivalled overview of modern MS-based armamentarium that can be used to solve the most challenging problems in biophysics, structural biology, and biopharmaceuticals, the book is a practical

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guide to understanding the role of MS techniques in biophysical research. Designed to meet the needs of both academic and industrial researchers, it makes mass spectrometry accessible to professionals in a range of fields, including biopharmaceuticals. This new edition has been significantly expanded and updated to include the most recent experimental methodologies and techniques, MS applications in biophysics and structural biology, methods for studying higher order structure and dynamics of proteins, an examination of other biopolymers and synthetic polymers, such as nucleic acids and oligosaccharides, and much more. Featuring high-quality illustrations that illuminate the concepts described in the text, as well as extensive references that enable the reader to pursue further study, *Mass Spectrometry in Structural Biology and Biophysics* is an indispensable resource for researchers and graduate

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students working in biophysics, structural biology, protein chemistry, and related fields.

During development cells and tissues undergo changes in pattern and form that employ a wider range of physical mechanisms than at any other time in an organism's life. This book shows how physics can be used to analyze these biological phenomena. Written to be accessible to both biologists and physicists, major stages and components of the biological development process are introduced and then analyzed from the viewpoint of physics. The presentation of physical models requires no mathematics beyond basic calculus. Physical concepts introduced include diffusion, viscosity and elasticity, adhesion, dynamical systems, electrical potential, percolation, fractals, reaction-diffusion systems, and cellular

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automata. With full-color figures throughout, this comprehensive textbook teaches biophysics by application to developmental biology and is suitable for graduate and upper-undergraduate courses in physics and biology.

Foundation Book 1 is developed for those taking the Foundation Tier Single Award modules and Foundation Book 2 is for the Foundation Tier Double Award Modules. The features include: a clear identification of Topic Areas, Learning Outcomes, Key Facts and Did You Know? sections. Each module is covered in self-contained units. Practice questions are included in every section for confidence building and thorough exam preparation. Support for Book 1 can be found in Teacher Support Pack Book 1.

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along with exercises to improve students skills and enhance understanding of investigative work. Key Skill opportunities are clearly outlined with weblinks. Ideas and evidence in science are fully covered. A number of examination questions and short questions for homework and self-testing are included to aid students' understanding.

Electrified interfaces span from metal/semiconductor and metal/electrolyte interfaces to disperse systems and biological membranes, and are notably important in so many physical, chemical and biological systems that their study has been tackled by researchers with different scientific backgrounds using different methodological approaches. The various electrified interfaces have several common features. The equilibrium distribution of positive



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and negative ions in an electrolytic solution is governed by the same Poisson-Boltzmann equation independent of whether the solution comes into contact with a metal, a colloidal particle or a biomembrane, and the same is true for the equilibrium distribution of free electrons and holes of a semiconductor in contact with a different conducting phase. Evaluation of electric potential differences across biomembranes is based on the same identity of electrochemical potentials which holds for a glass electrode and which yields the Nernst equation when applied to a metal/solution interface. The theory of thermally activated electron tunneling, which was developed by Marcus, Levich, Dogonadze and others to account for electron transfer across metal/electrolyte interfaces, is also applied to light induced charge separation and proton translocation reactions across intercellular membranes. From an

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experimental viewpoint, the same electrochemical and in situ spectroscopic techniques can equally well be employed for the study of apparently quite different electrified interfaces.

Edited by renowned protein scientist and bestselling author Roger L. Lundblad, with the assistance of Fiona M. Macdonald of CRC Press, this fourth edition of the Handbook of Biochemistry and Molecular Biology represents a dramatic revision — the first in two decades — of one of biochemistry's most referenced works. This edition gathers a wealth of information not easily obtained, including information not found on the web. Offering a molecular perspective not available 20 years ago, it provides physical and

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chemical data on proteins, nucleic acids, lipids, and carbohydrates. Presented in an organized, concise, and simple-to-use format, this popular reference allows quick access to the most frequently used data. Covering a wide range of topics, from classical biochemistry to proteomics and genomics, it also details the properties of commonly used biochemicals, laboratory solvents, and reagents. Just a small sampling of the wealth of information found inside the handbook: Buffers and buffer solutions Heat capacities and combustion levels Reagents for the chemical modification of proteins Comprehensive classification system for lipids Biological characteristics of vitamins A huge variety of UV data Recommendations for nomenclature and tables in biochemical thermodynamics Guidelines for NMR measurements for determination of high and low pK<sub>a</sub> values Viscosity and density

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tables Chemical and physical properties of various commercial plastics Generic source-based nomenclature for polymers Therapeutic enzymes About the Editors: Roger L. Lundblad, Ph.D. Roger L. Lundblad is a native of San Francisco, California. He received his undergraduate education at Pacific Lutheran University and his PhD degree in biochemistry at the University of Washington. After postdoctoral work in the laboratories of Stanford Moore and William Stein at the Rockefeller University, he joined the faculty of the University of North Carolina at Chapel Hill. He joined the Hyland Division of Baxter Healthcare in 1990. Currently Dr. Lundblad is an independent consultant and writer in biotechnology in Chapel Hill, North Carolina. He is an adjunct Professor of Pathology at the University of North Carolina at Chapel Hill and Editor-in-Chief of the Internet Journal of Genomics

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and Proteomics. Fiona M. Macdonald, Ph.D., F.R.S.C. Fiona M. Macdonald received her BSc in chemistry from Durham University, UK. She obtained her PhD in inorganic biochemistry at Birkbeck College, University of London, studying under Peter Sadler. Having spent most of her career in scientific publishing, she is now at Taylor and Francis and is involved in developing chemical information products.

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