



Interfacial Forces in Aqueous Media, Second Edition

Carel J. van Oss

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Thoroughly revised and reorganized, the second edition of **Interfacial Forces in Aqueous Media** examines the role of polar interfacial and noncovalent interactions among biological and nonbiological macromolecules as well as biopolymers, particles, surfaces, cells, and both polar and apolar polymers. The book encompasses Lifshitz-van der Waals and electrical double layer interactions, as well as Lewis acid–base interactions between colloidal entities in polar liquids such as water.

A new chapter examining the kinetics and energetics of protein adsorption onto metal oxide surfaces Dr. van Oss describes the nature of the various manifestations of hydrophobic interactions as well as of hydration pressure and analyzes the measurement of the contact angles that result when liquid droplets are deposited on flat solids. He also covers coacervation and complex coacervation, discusses the determination methods of electrokinetic potentials, and treats some of the lesser-known properties of water, such as cluster formation and the hydrophobicity of the water-air interface. Principally involved in multiple applications of colloids and interface science for more than 50 years, **Carel Jan van Oss** is Editor Emeritus of *Immunological Investigations* and Founding Editor of *Preparative Biochemistry and Biotechnology* and of *Separation and Purification Reviews*. He is an editorial advisor for the *Journal of Dispersion Science and Technology*. In addition to these Taylor & Francis journals, Dr. van Oss is the author, coauthor, or editor of eleven books, including **Colloid & Surface Properties of Clays and Related Minerals** (2002), and over 350 scientific papers and chapters.

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