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Nota di contenuto	Foreword -- Preface -- Acknowledgements -- List of contributors -- An attempt of a general overview / Werner Kunz and Roland Neueeder -- Phospholipid aggregates as model systems to understand ion-specific effects : experiments and models / Epameinondas Leontidis -- Modelling specific ion effects in engineering science / Christoph Held and Gabriele Sadowski -- Linear and non-linear optical techniques to probe ion profiles at the air-water interface / Hubert Motschmann and Patrick Koelsch -- X-ray studies of ion specific effects / Padmanabhan Viswanath, Luc Girard, Jean Daillant, Luc Belloni, Olivier Spalla and Dmitri Novikov -- Determination of specific ion structure by neutron scattering and computer simulation / George W. Neilson, Philip E. Mason and John W. Brady -- Specific ion effects at the ir-water interface : experimental studies / Vincent S.J. Craig and Christine L. Henry -- Ion binding to biomolecules / Mikael Lund, Jan Heyda and Pavel Jungwirth -- Ion-specificity : from solvation thermodynamics to molecular simulations and back / Joachim Dzubiella, Maria Fyta, Dominik Horinek, Immanuel Kalcher, Roland R. Netz and Nadine Schwierz -- HNC calculations of specific ion effects / Luc Belloni and Ioulia Chikina -- Modifying the Poisson-Boltzmann approach to model specific ion effects / Mathias Bostrom, Eduardo R.A. Lima, Evaristo C. Biscaia, Jr., Frederico W. Tavares and Werner Kunz -- An attempt of a

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Sommario/riassunto

Specific ion effects are important in numerous fields of science and technology. This book summarizes the main ideas that came up over the years. It presents the efforts of theoreticians and supports it by the experimental results stemming from various techniques.
