

1. Record Nr.	UNINA9910783683003321
Autore	Fawcett W. Ronald
Titolo	Liquids, solutions, and interfaces : from classical macroscopic descriptions to modern microscopic details // W. Ronald Fawcett
Pubbl/distr/stampa	Oxford, [England] ; ; New York : , : Oxford University Press, , 2004 ©2004
ISBN	0-19-756074-1 1-280-44206-9 1-4237-3440-8 0-19-802544-0 1-60256-029-3
Descrizione fisica	1 online resource (638 p.)
Collana	The Johns Hopkins University applied physics laboratory series in science and engineering Oxford scholarship online
Disciplina	541.3/4
Soggetti	Solution (Chemistry) Interfaces (Physical sciences)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2004.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Contents; Fundamental Constants; 1. The Thermodynamics of Liquid Solutions; 2. The Structure of Liquids; 3. Electrolyte Solutions; 4. Polar Solvents; 5. Spectroscopic Studies of Liquid Structure and Solvation; 6. Non-Equilibrium Phenomena in Liquids and Solutions; 7. Chemical Reaction Kinetics in Solution; 8. Liquids and Solutions at Interfaces; 9. Charge Transfer Equilibria at Interfaces; 10. The Electrical Double Layer; Appendix A. Mathematical Background; Appendix B. The Laws of Electricity and Magnetism; Appendix C. Numerical Methods of Data Analysis; Index
Sommario/riassunto	A typical optical system is composed of three basic components: a source, a detector, and a medium in which the optical energy propagates. Many textbooks cover sources and detectors, but very few cover propagation in a comprehensive way, incorporating the latest progress in theory and experiment concerning the propagating

medium. This book will fulfill that need. It is the first comprehensive and self-contained book on this topic. It will be a useful reference book for researchers, and a textbook for courses like Laser Light Propagation, Solid State Optics, and Optical Propagation in the Atmosphere.
