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Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (VIII, 555 p. 230 illus., 116 illus. in color.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 917
Disciplina	530.417
Soggetti	Amorphous substances Complex fluids Optical materials Electronic materials Polymers Physical chemistry Soft and Granular Matter, Complex Fluids and Microfluidics Optical and Electronic Materials Polymer Sciences Physical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	From the Contents: Thermodynamics of interfaces -- Basics of Electrochemistry -- Introduction to depletion forces and phase behaviour of colloid mixtures -- Interfaces of binary mixtures -- Dynamics of surfactants and polymers at liquid interfaces.
Sommario/riassunto	This book covers the science of interfaces between an aqueous phase and a solid, another liquid or a gaseous phase, starting from the basic physical chemistry all the way to state-of-the-art research developments. Both experimental and theoretical methods are treated thanks to the contributions of a distinguished list of authors who are all active researchers in their respective fields. The properties of these interfaces are crucial for a wide variety of processes, products and biological systems and functions, such as the formulation of personal

care and food products, paints and coatings, microfluidic and lab-on-a-chip applications, cell membranes, and lung surfactants. Accordingly, research and expertise on the subject are spread over a broad range of academic disciplines and industrial laboratories. This book brings together knowledge from these different places with the aim of fostering education, collaborations and research progress.
