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| Edizione | [Second edition, revised and expanded.] |
| Descrizione fisica | 1 online resource (486 p.) |
| Disciplina | 620/.5 |
| Soggetti | Biocolloids Biological interfaces Nanotechnology Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters and index. |
| Nota di contenuto | Front Cover; Contents; Preface; Author; Chapter 1: Introduction; Chapter 2: Colloidal Particles: Shapes and Size Distributions; Chapter 3: Some Thermodynamic Principles and Relations, with Special Attention to Interfaces; Chapter 4: Water; Chapter 5: Interfacial Tension; Curvature and Capillarity; Monolayers at Fluid Interfaces; Chapter 8: Wetting of Solid Surfaces; Chapter 9: Electrochemistry of Interfaces; Chapter 10: Electrokinetic Phenomena; Chapter 11: Self-Assembly of Amphiphilic Molecules; Chapter 12: Polymers; Proteins; Chapter 14: Adsorption Chapter 15: Adsorption of (Bio) Polymers, with Special Emphasis on Globular Proteins Chapter 16: Stability of Lyophobic Colloids against Aggregation; Chapter 17: Rheology, with Special Attention to Dispersions and Interfaces; Chapter 18: Emulsions and Foams; Chapter 19: Physicochemical Properties of Biological Membranes; Chapter 20: Bioadhesion; Appendix: Solutions to Exercises; Back Cover |
| Sommario/riassunto | Each chapter includes Exercises and Suggestions for Further Reading Introduction Colloidal Domain Interfaces Are Closely Related to Colloids Colloid and Interface Science in a Historical |

Perspective
Classification of Colloidal Systems
Colloidal Particles: Shapes and Size Distributions
Shapes
Particle Size Distributions
Average Molar Mass
Specific Surface Area
Some Thermodynamic Principles and Relations, with Special Attention to Interfaces
Energy, Work, and Heat:
The First Law of Thermodynamics
The Second Law of Thermodynamics:
Entropy
Reversible Processes: Definition of Intensive Variables
Introduction o
