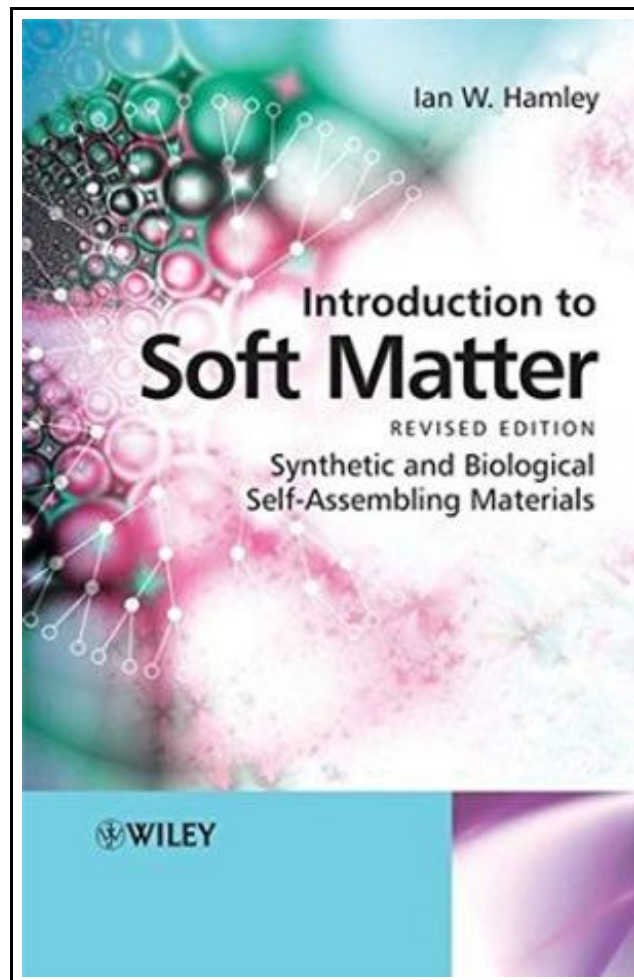


## Introduction to Soft Matter: Synthetic and Biological Self-Assembling Materials



Filesize: 7.48 MB

### ***Reviews***

*The publication is easy in read through better to recognize. It usually will not cost too much. You wont feel monotony at whenever you want of the time (that's what catalogs are for concerning when you question me).*

*(Rebecca Bechtelar)*

## INTRODUCTION TO SOFT MATTER: SYNTHETIC AND BIOLOGICAL SELF-ASSEMBLING MATERIALS



To download **Introduction to Soft Matter: Synthetic and Biological Self-Assembling Materials** PDF, please refer to the link listed below and download the ebook or get access to other information that are in conjunction with INTRODUCTION TO SOFT MATTER: SYNTHETIC AND BIOLOGICAL SELF-ASSEMBLING MATERIALS ebook.

Wiley, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface to the revised Edition. Preface to the First Edition. 1. Introduction. 1.1 Introduction. 1.2 Intermolecular Interactions. 1.3 Structural Organization. 1.4 Dynamics. 1.5 Phase Transitions. 1.6 Order Parameters. 1.7 Scaling Laws. 1.8 Polydispersity. 1.9 Experimental Techniques for Investigating Soft Matter. 1.10 Computer Simulation. Further Reading. 2. Polymers. 2.1 Introduction. 2.2 Synthesis. 2.3 Polymer Chain Conformation. 2.4 Characterization. 2.5 Polymer Solutions. 2.6 Amorphous Polymers. 2.7 Crystalline Polymers. 2.8 Plastics. 2.9 Rubber. 2.10 Fibres. 2.11 Polymer Blends and Block Copolymers. 2.12 Dendrimers and Hyperbranched Polymers. 2.13 Polyelectrolytes. 2.14 Electronic and Opto-electronic Polymers. Further Reading. Questions. 3. Colloids. 3.1 Introduction. 3.2 Types of Colloids. 3.3 Forces Between Colloidal Particles. 3.4 Characterization of Colloids. 3.5 Charge Stabilization. 3.6 Steric Stabilization. 3.7 Effect of Polymers on Colloid Stability. 3.8 Kinetic Properties. 3.9 Sols. 3.10 Gels. 3.11 Clays. 3.12 Foams. 3.13 Emulsions. 3.14 Food Colloids. 3.15 Concentrated Colloidal Dispersions. Further Reading. Questions. 4. Amphiphiles. 4.1 Introduction. 4.2 Types of Amphiphile. 4.3 Surface Activity. 4.4 Surfactant Monolayers and Langmuir-Blodgett Films. 4.5 Adsorption at Solid Interfaces. 4.6 Micellization and the Critical Micelle Concentration. 4.7 Detergency. 4.8 Solubilization in Micelles. 4.9 Interfacial Curvature and Its Relationship to Molecular Structure. 4.10 Liquid Crystal Phases at High Concentrations. 4.11 Membranes. 4.12 Templated Structures. Further Reading. Questions. 5. Liquid Crystals. 5.1 Introduction. 5.2 Types of Liquid Crystals. 5.3 Characteristics of Liquid Crystal Phases. 5.4 Identification of Liquid Crystal Phases. 5.5 Orientational Order. 5.6 Elastic Properties. 5.7 Phase Transitions in Liquid Crystals. 5.8 Applications of Liquid Crystals. Further Reading. Questions. 6. Biological Soft Matter. 6.1 Introduction. 6.2 Lipid Membranes. 6.3 DNA. 6.4 Proteins. 6.5 Polysaccharides and Glycoproteins. 6.6 Macromolecular Assemblies. Further Reading. Questions. Numerical Solutions to Questions. Index.



**Read Introduction to Soft Matter: Synthetic and Biological Self-Assembling Materials Online**



**Download PDF Introduction to Soft Matter: Synthetic and Biological Self-Assembling Materials**

## Related eBooks



**[PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)**

Access the hyperlink beneath to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" PDF file.

[Download Document »](#)



**[PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)**

Access the hyperlink beneath to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)" PDF file.

[Download Document »](#)



**[PDF] My Windows 8.1 Computer for Seniors (2nd Revised edition)**

Access the hyperlink beneath to download "My Windows 8.1 Computer for Seniors (2nd Revised edition)" PDF file.

[Download Document »](#)



**[PDF] I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book**

Access the hyperlink beneath to download "I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book" PDF file.

[Download Document »](#)



**[PDF] My Name is Rachel Corrie (2nd Revised edition)**

Access the hyperlink beneath to download "My Name is Rachel Corrie (2nd Revised edition)" PDF file.

[Download Document »](#)



**[PDF] Creative Kids Preschool Arts and Crafts by Grace Jasmine 1997 Paperback New Edition Teachers Edition of Textbook**

Access the hyperlink beneath to download "Creative Kids Preschool Arts and Crafts by Grace Jasmine 1997 Paperback New Edition Teachers Edition of Textbook" PDF file.

[Download Document »](#)