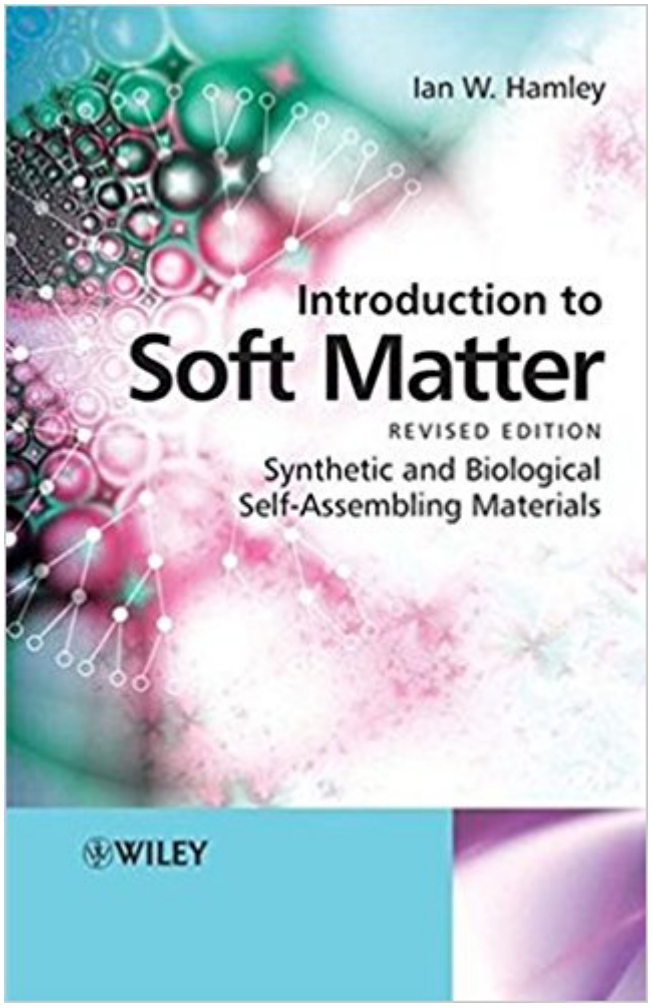
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Introduction To Soft Matter: Synthetic And Biological Self-Assembling Materials



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Synopsis

This book provides an introduction to this exciting and relatively new subject with chapters covering natural and synthetic polymers, colloids, surfactants and liquid crystals highlighting the many and varied applications of these materials. Written by an expert in the field, this book will be an essential reference for people working in both industry and academia and will aid in understanding of this increasingly popular topic. Contains a new chapter on biological soft matter Newly edited and updated chapters including updated coverage of recent aspects of polymer science. Contain problems at the end of each chapter to facilitate understanding

Book Information

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Customer Reviews

"...Introduction to Soft Matter is an extremely valuable textbook for undergraduate classes, and represents an excellent introductory reading for the researchers who venture on this field." (Macromol. Chem. Phys. 2008, 209, 1073)

Soft matter materials include polymers, colloids, emulsions, amphiphiles, surfactants, membranes, liquid crystals and biomaterials. Although these materials seem very different, they have common structural and dynamic properties that are somewhere between those of crystalline solids and simple molecular liquids and gases. Soft matter is an interdisciplinary subject drawing not only from physics, chemistry and materials science but also from biology, biochemistry and engineering. These materials have a wide range of applications, such as in structural and packaging materials, foams and adhesives, detergents and cosmetics, paints, food additives and biological materials.

Written in an Ã¢â ¬Å“easy-to-follow styleÃ¢â ¬Â•, this textbook provides an introduction to this exciting subject with chapters covering natural and synthetic polymers, colloids, surfactants, biological soft matter and liquid crystals and the many and varied applications of these materials. It has been newly edited and has chapters with updated coverage of recent aspects of polymer science. A series of questions and answers is also provided at the end of each chapter. The book contains a new chapter on biological soft matter, which adds significantly to the discussion of proteins, DNA and lipid membranes in the previous edition. The book will appeal to students of polymer, biomaterial, colloid, surface and interface science. Experienced researchers in the field will also find this a good introductory text for revising their knowledge of the basics. Reviews of the First Edition Ã Â "A timely and concise textbook on "soft matter" suitable for both undergraduate students and researchers." Advanced Materials "It is well written in an easy-to-follow style and deals with some quite complex topics by good use of analogy and comparison." Chemistry in Britain

I’m not exactly sure what to say, other than I was really disappointed by the overall presentation of material in this book. It wasn’t absolutely terrible, but I am of the firm belief that someone could do a much better job presenting the material here. I bought the Kindle version and didn’t like the way the text and figures were formatted together. I looked at a hard copy of the text and thought it was easier to go through than the kindle edition.

A truly mediocre to simply bad textbook. The book lacks the clarity necessary for the depth of topic that it is attempting to summarize and teach. If it’s a textbook needed for a course, there is nothing you can do, but I wish you luck with it.An unhelpful resource.

The book by Ian Hamley presents an excellent introduction to the physical chemistry of soft matter. A wide range of examples are given. It can be read by a complete novice in the area, to provide a bridge to more advanced research literature. It is much simpler than the book by Richard Jones, which could be read once the contents of Hamley’s text have been properly digested (followed by the books of Lubensky or Kleman if the reader wants a strong background in theoretical soft matter physics).

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