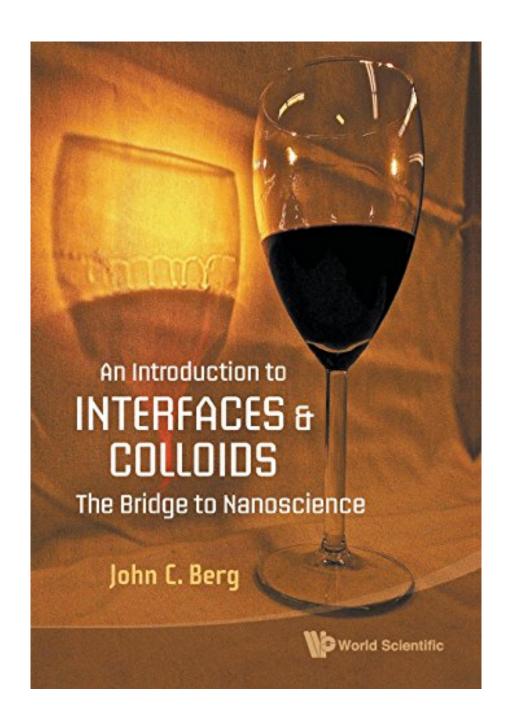


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Review

"Born of decades of diverse experience performing research and teaching in the field of surface and colloid science, Prof. Berg's new textbook is a must buy for students just entering the field, as well as for experts. I find myself frequently referring to the book as a reference when writing grants. Prof. Berg's organization of the subject matter, combined with his exquisitely clear descriptions that provide a molecular level understanding of phenomena, have set a new standard for textbooks in the field." -- Journal of Colloid and Interface Science

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From the Inside Flap

The textbook seeks to bring readers with no prior knowledge or experience in interfacial phenomena, colloid science or nanoscience to the point where they can comfortably enter the current scientific and technical literature in the area.

Designed as a pedagogical tool, this book recognizes the cross-disciplinary nature of the subject. To facilitate learning, the topics are developed from the beginning with ample cross-referencing. The understanding of concepts is enhanced by clear descriptions of experiments and provisions of figures and illustrations.

About the Author

John C. Berg is Professor of Government at Suffolk University and is an award-winning author on topics of race, class, gender, and political parties and movements.

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Most helpful customer reviews

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The only book you need to understand Interfaces and Colloids

By Benjamin J. Wiley

I have taken two interface and colloids courses (one with Professor Berg), and am currently a professor at Duke in the area of chemistry and nanomaterials. Dr. Berg's book, resulting from decades of diverse experience performing research and teaching in the field, is an exquisitely clear introduction to interfaces, colloids, and their central role in nanoscience and everyday life. I have reviewed many books in the area of nanoscience and colloids, this is by far the best, it has no peer. Further, as an "expert" I find it the most comprehensive reference for information on the topic. Dr. Berg manages to describe things in a way students can intuitively understand, but he also derives the equations necessary for quantitative prediction of complex phenomena. After taking his course several years ago, I find myself often referring to his book when I want to refresh my knowledge in an area, or learn something new (before it was published this year he sold it to students for his class - I have treasured this book and have often told him he should publish it). The "fun things to do" at the end of each chapter are indeed fun, but also extremely simple and illustrative experiments one can show a class, or do oneself, to further enhance one's understanding of how molecular-level interactions control the world around us. No complicated materials are needed - want to measure the thickness of the water-air interface? All you need is a laser pointer and a piece of paper. Ever wonder why you can fill a cup of water over the brim? Why cleaning products work better than water? Berg will give you the complete molecular-level understanding, no matter what your background. For a student interested in nanoscience, this is the place to start, this book will give you the background you need to understand the literature (often to a better extant than those that write it!). For educators - get this book! It will make your job of coming up with good explanations so much easier! Dr. Berg has worked it all out. My only wish is that Dr. Berg comes out with a supplement describing his full gamut of laboratory experiments. But I truly can not praise this book enough, so well organized, so clear, so well thought out, so much knowledge. What are you waiting for? Buy it!

5 of 6 people found the following review helpful.

An excellent book

By J. Koerner

I took Professor John Berg's Surface and Colloid Science course as an undergraduate student about six years ago. The course materials, which I presume are a precursor to this book, are concise, thorough, and masterfully conveyed. The knowledge gained from the course was instrumental in my success during a career at a leading national laboratory after graduation. Professor Berg has a true and unique gift for writing and teaching. Any student would be lucky to learn from this book.

3 of 3 people found the following review helpful.

Wealth of information

By J. G, Bailey

This is a great compilation of the complete subject matter. It brings the reader along from the beginning thinking on this subject and builds from chapter to chapter. I think it a valuable reference book for those doing complex technical thinking on interfaces and colloids. It also is a great text for those learning the subject matter. The author has a great way of bringing in practical examples of how to apply the theory. A

great addition to my technical library.

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