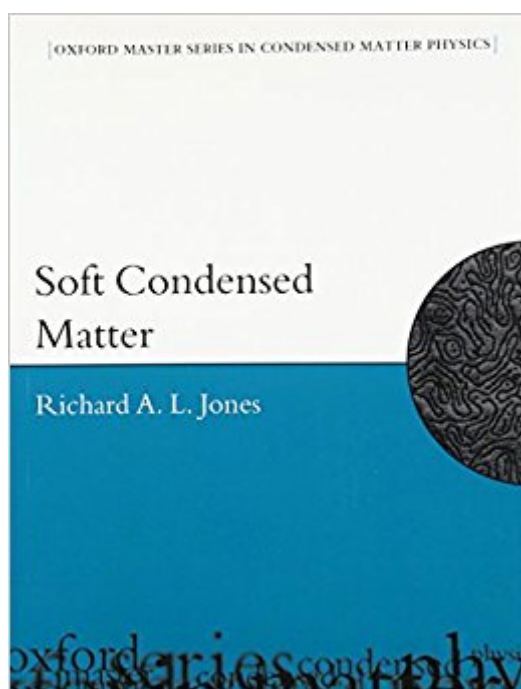


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Soft Condensed Matter (Oxford Master Series In Condensed Matter Physics, Vol. 6)



Synopsis

Probably one of the most fashionable areas in the physical sciences today, Soft Condensed Matter provides an excellent introduction to the topic, and includes colloids, polymers, liquid crystals, and amphiphiles. It is suitable for advanced undergraduate and beginning graduate students of physics, chemistry, materials science and chemical engineering.

Book Information

Paperback: 208 pages

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Customer Reviews

"[A] need has long existed for texts suitable for an introductory graduate or senior undergraduate course. Soft Condensed Matter, by Richard A. L. Jones, is the first textbook to meet that need. ... It should make teaching much easier, which in turn should result in many more soft condensed matter courses being offered. That will surely help the field to grow even more."--Physics Today
The book is targeted at final-year undergraduates and graduate students, but I would push it in front of anyone starting to work with polymers, oils or concentrated dispersions in industry - even an old lag like myself found a number of interesting new insights. ... I hope that [Jones] can be persuaded to write a volume 2."--Chemistry in Britain

Prof. Richard A.L. Jones, University of Sheffield, Department of Physics and Astronomy, Hicks Building, Hounsfield Road, Sheffield S3 7RH, Tel.: 0114/2224530, Fax: 0114/2728079, Email: r.a.l.jones@sheffield.ac.uk

The chapters are written in straightforward language, conveying essential ideas and fundamentals

in very readable manner. The book illustrates how one can convey complex ideas in simple words and yet capture all intricacies of the subject. The book is self contained introduction to colloids, polymers, liquid crystals, self-assembly, crystallization, glass transition, phase behavior and gelation. I have not encountered a better book that presents such a rich overview of these vastly different yet interrelated domain of condensed matter physics in less than 200 pages. Since the book was written fairly recently, it presents a very modern understanding of described topics. The book by Chaikin and Lubensky (~700 pages) is the one written for anyone interested in meaty details, and equations in their full grandeur. Strobl's recent book on condensed matter is another excellent text and presents lots of physics in very well written graduate level text. But to taste and tempt into soft matter, Jones book definitely is the one to pick!

This book is very good. And I ordered the used one, but it looks like a new book. And it was shipped on time. I am happy I got the book, cheap and fast.

The book does a good job of introducing the concepts; good explanations and proper coverage of all material. However, some equations in this book are incorrect (mild typos) and answers provided in the back cannot be depended on (we can even figure out, sometimes, what the person writing the solution did wrong). Still, our teacher did enjoy giving us these problems to see if we'd notice.

There are several mistakes in the book. Also the solutions for problems printed in the back of the book are incorrect. There are several typos.

We use this book in our masters course of soft matter physics. The strength is that it is the only book I know that covers so many aspects of soft matter physics. However, many of the derivations are quite unclear and hard to follow in my opinion. I usually have to spend a lot of time actually figuring out what the author means and do calculations by myself. There are also some typos etc. but I know this is hard to avoid entirely (I wrote a book myself so I know). It would be nice to see an improved new release of this book in the future.

This book excels at giving you a qualitative view on soft matter and discusses briefly some of the mathematics involved. However, it has some typos and contradicting statements in the discussion versus the summary of the section which confuses the reader.

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