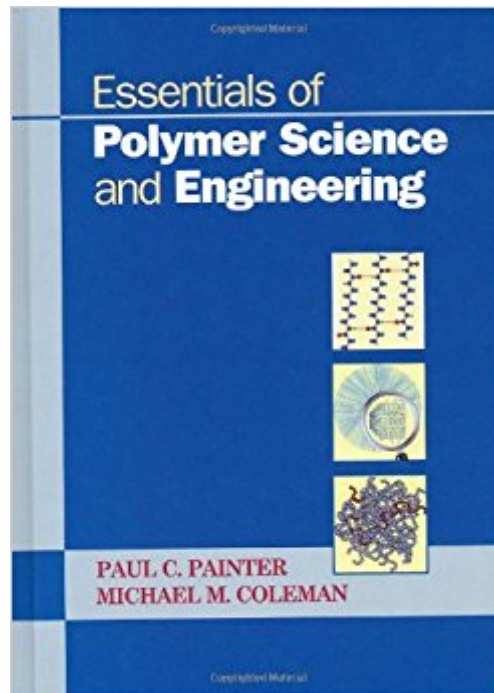




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Essentials Of Polymer Science And Engineering



Synopsis

This book is at once an introduction to polymers and an imaginative invitation to the field of polymer science and engineering as a whole, including plastics and plastics processing. Created by two of the best-known scientists in America, the text explains and helps students as well as professionals appreciate all major topics in polymer chemistry and engineering: polymerization synthesis and kinetics, applications of probability theory, structure and morphology, thermal and solution properties, mechanical properties, biological properties and plastics processing methods. Essentials of Polymer Science and Engineering, designed to supercede many standard texts (including the authors'), is unique in a number of ways. Special attention has been paid to explaining fundamentals and providing high-level visuals. In addition, the text is replete with engaging profiles of polymer chemists and their discoveries. The book explains the science of polymer engineering, and at the same time, tells the story of the field from its beginnings to the present, indicating when and how polymer discoveries have played a role in history and society. The book comes well equipped with study questions and problems and is suitable for a one- or two-semester course for chemistry students at the undergraduate and graduate levels. The authors will have available an Instructors workbook, which includes a Power Point Presentation, available on a CD-ROM by end of summer (2008).

Book Information

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Customer Reviews

I love the impact of the color...most texts about polymers are DULL looking and thus don't

encourage student readership. The problem sets are great. I definitely plan to adopt this text.

Thanks for a new outlook on plastics! --Robert Chasnov, Professor of Engineering and Assistant to the Chair, Cedarville University

The book finally arrived some weeks ago. I inspected it and I am fascinated. I've never seen a polymer textbook like this. On the one hand it is perfect to motivate young students to get involved into polymer science, on the other hand it goes enough into depth to give master students all they will need in polymer science before specializing in a single topic. For the somewhat more dire European taste it might be just a tick too colorful, but that's ok with me! I will certainly recommend it to my students both in bachelor and master courses (this winter it is a master course). It is a pity it is not available in German! --Prof. Axel Mueller, Dean, Faculty of

Biology, Chemistry and Earth Sciences, University of Bayreuth, Germany

We especially liked the two-column layout, colour diagrams and the processing section. This text will be very useful for both students and our industry-based courses. --Neil Edmonds: Director, Polymers and Coatings

Science, University of Auckland; Peter Plimmer: Senior research fellow in Materials, University of Auckland

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The authors are two of the best-known professors in the field of polymer science. They are known for a witty and accessible style of writing. Paul C. Painter, Professor, Penn State University Michael M. Coleman, Professor Emeritus, Penn State University

In terms of the fundamentals, it is a very solid book. You can get a very good idea of the material being discussed. However, there are many equations that are incorrect, including misplaced parenthesis and +/- sign changes that can leave you confused in terms of the math involved. Not really a good book for problem solving though but it would be a great reference.

Some of the math needs to be double checked I think, but the tone is very funny and readable. A very enjoyable read.

Very good book.

Everything was fine

Funny

This book is a fun read, the authors are able to bring historical aspects of the development of polymers science to life, as well as give a fairly good overview of the subject matter. My MAJOR problem with this book is that there are several equations in it that are incorrect!!! As you read through and try to derive the equations yourself, you will find that some equations are either missing a key aspect, +/- signs are in the wrong places, or instead of squaring something they forget the superscript and it looks like it is being multiplied. This is something I find deplorable in a text book. I gave it 3 stars because as an overview it is still helpful for understanding polymer interactions and the authors do a good job of bringing up some complex ideas in ways that are simple and easy to understand. I also did enjoy the historical anecdotes placed throughout the book. If they fixed the problem equations, I'd give it 4.5 stars.

I used this for a undergraduate MSE polymers course. Pros: 1. Extremely easy to read. 2. Great historical inserts. 3. full fledged color and gloss finish. Cons: 1. Too EXPENSIVE for this kind of text. 2. Derivations are funky and incomplete. 3. Perhaps the most annoying, there are no example problems which always bothers me. (Aside: in my opinion this means the authors are just regurgitating information they have acquired over their career's rather than critically giving insight to the possible real world applications.) 3. Problem sets are weak.

This book is very well written. It is very easy to read. However, the discussion is not deep. It is kind of disappointing if you really want to understand the behavior of polymers. However, for beginners, it might still be a good book since the language is really easy to understand.

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