



Essentials of Polymer Science and Engineering

By Paul C. Painter, Michael M. Coleman

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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 supersede 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).

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Editorial Review

Review

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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About the Author

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

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