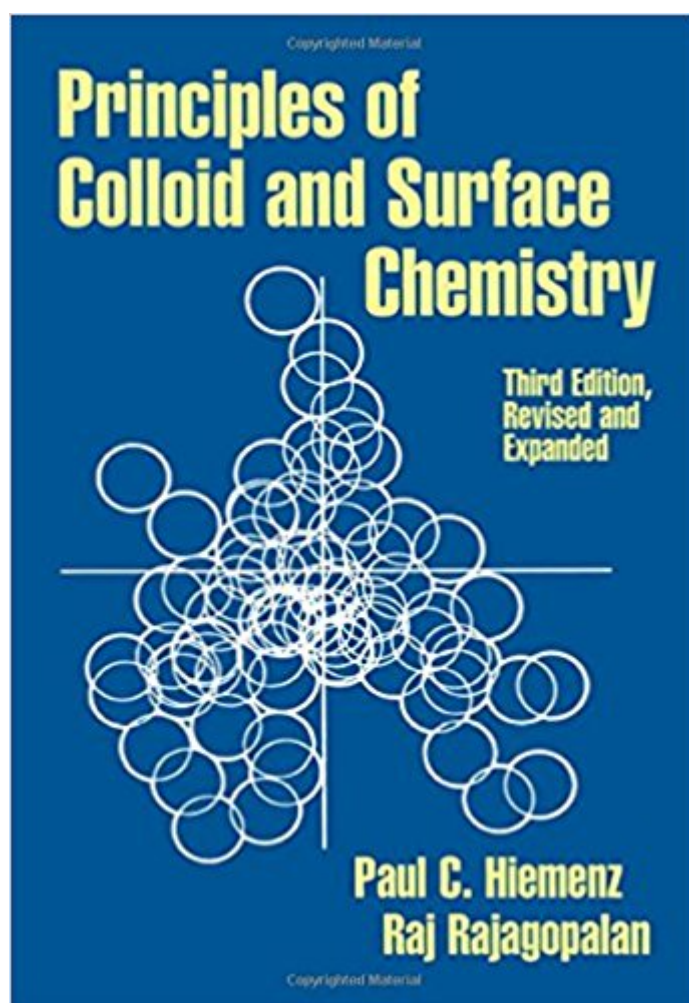




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Principles Of Colloid And Surface Chemistry, Third Edition, Revised And Expanded (Undergraduate Chemistry: A Series Of Textbooks)



Synopsis

This work aims to familiarize students with the fundamentals of colloid and surface science, from various types of colloids and colloidal phenomena, and classical and modern characterization/measurement techniques to applications of colloids and surface science in engineering, technology, chemistry, physics and biological and medical sciences. The Journal of Textile Studies proclaims "High praise from peers . . . contains valuable information on many topics of interest to food rheologists and polymer scientists" [The book] should be in the libraries of academic and industrial food research organizations" and Chromatographia describes the book as "an excellent textbook, excellently organised, clearly written and well laid out."

Book Information

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"High praise from peers . . . contains valuable information on many topics of interest to food rheologists and polymer scientists. . . should be in the libraries of academic and industrial food research organizations." ---Journal of Texture Studies . " . . the treatment is unique. The most striking, perhaps, is the introduction of short 'vignettes. . . ' which expand on the main point being made in the text. This is a fine revision of a fine book. Highly recommended." ---Journal of Dispersion Science and Technology . " . . an excellent textbook, excellently organised, clearly written and well laid out." ---Chromatographia "Controlled release scientists will find the book of major help in solving problems related with diffusion, sedimentation, osmosis, dispersion, colloidal suspensions, light scattering, surface tension, double-layer theory, electronkinetic phenomena and

colloidal stability. . . .Recommended." ---Journal of Controlled Release

I think this book explains the fundamentals of colloid/surface chemistry very well. It gives some detailed examples, that if followed, provides the reader the concepts and insights that may be difficult to understand. As a student, I would recommend buying this book in the first year in a masters/ PhD program as the concepts can be used throughout the program.

...but it seems that Hiemenz has done it again. The formatting isn't excellent, and the organization and presentation could be better, but overall this is not an easy upper-undergrad subject to write a textbook about. Overall, Hiemenz does a good job of showing you the "source code," i.e. derivations/complete math, where it counts and skipping it when it doesn't. And though I hate doing the application-based problems at the back of the book (I prefer theory-type problems for understanding), I can't deny that they do solidify the concepts and drive in the key points. The quick review questions at the end of each chapter for re-visiting concepts are also very useful.

Bought this as a supplement to my graduate courses in surface chemistry. While there is better text available for graduate-level study (Adamson and Gast), this book does a superb job of laying the foundation in colloids and surface chemistry. With a strong background in physical chemistry, the subject matter will be a breeze to learn. I struggled with the courses until I picked this up. I applaud the author for a fine job in organization and layout of material, as well as a basic delivery of theory.

Not enough examples and overly wordy

This book provides a great overview of principles of colloid and surface chemistry. It is becoming slightly outdated but still adequately covers the basics necessary for a good understanding.

just as described

This is an excellent textbook for both undergraduate courses (for which it is intended) and for first-year graduate courses. The new edition contains new material on recent developments in colloid science and instrumental techniques, polymer-induced forces, rheology of dispersions and scattering techniques. The many 'Vignettes' included in this edition bring out the interdisciplinary nature of the subject, its impact in medical and biological sciences as well as in numerous

engineering areas, and the exciting aspects of colloid science that are not highlighted in other textbooks. There are numerous worked-out examples, review questions at the end of each chapter and annotated references. Highly recommended.

This is an excellent, first-level introduction to colloids and is better than any others available in the market. The vignettes in the book alone are worth the price! Suitable for self-study!

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