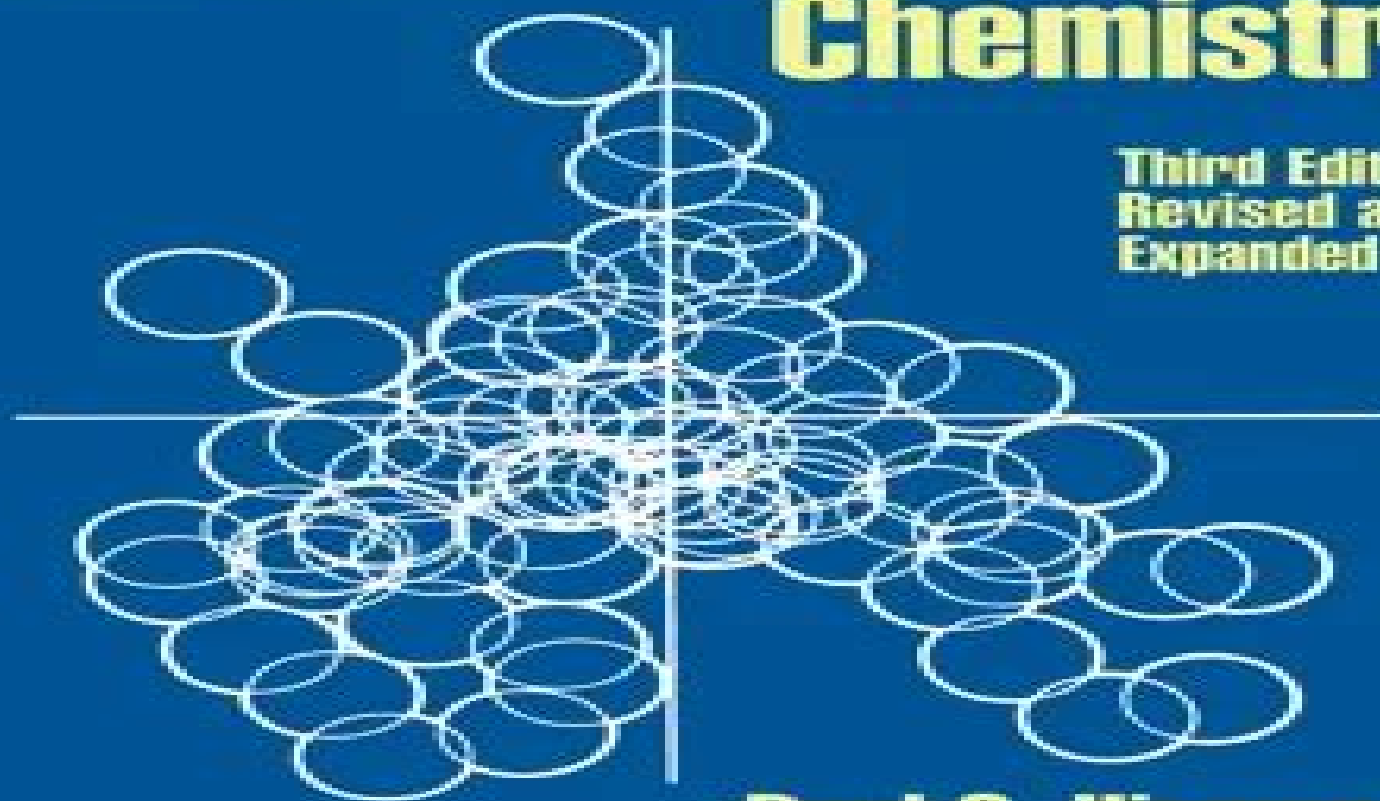


Principles of Colloid and Surface Chemistry

Third Edition,
Revised and
Expanded



Paul C. Hiemenz
Raj Rajagopalan

Principles Of Colloids And Surface Chemistry

**E.D. Shchukin,A.V. Pertsov,E.A.
Amelina,A.S. Zelenev**



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investigating the disperse state of matter and surface phenomena in disperse systems The book arises of and summarizes the progress made at the Colloid Chemistry Division of the Chemistry Department of Lomonosov Moscow State University MSU over many years of scientific pedagogical and methodological work Throughout the book the presentation of fundamental theoretical and experimental approaches and results is combined with discussion of general scientific basis of their role in nature and applications in various technological processes Encyclopedia of Surface and Colloid Science P.

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pressure for adsorption initiation The experimental apparatus is also described along with the various data analyses that yield surface area and porosity measurements and their analysis techniques Modern techniques are also presented such as the chi disjoining pressure and DFT analysis methods all of which yield realistic and consistent answers Designed for both novice and researchers in the field who need to become better acquainted with recent developments Explains how to complete data analyses that yield surface area and porosity measurements Includes experimental and data analysis problems and solutions Provides comparisons between both methods and data analysis *Emulsions, Foams, Suspensions, and Aerosols* Laurier L. Schramm, 2014-08-12 This is the first book to provide an integrated introduction to the nature formation and occurrence stability propagation and uses of the most common types of colloidal dispersion in the process related industries The primary focus is on the applications of the principles paying attention to practical processes and problems This is done both as part of the treatment of the fundamentals where appropriate and also in the separate sections devoted to specific kinds of industries Throughout the treatment is integrated with the principles of colloid and interface science common to each dispersion type presented for each major physical property class followed by separate treatments of features unique to emulsions foams or suspensions The first half of the book introduces the fundamental principles introducing readers to suspension formation and stability characterization and flow properties emphasizing practical aspects throughout The following chapters discuss a wide range of industrial applications and examples serving to emphasize the different methodologies that have been successfully applied The author assumes no prior knowledge of colloid chemistry and with its glossary of key terms complete cross referencing and indexing this is a must have for graduate and professional scientists and engineers who may encounter or use emulsions foams or suspensions or combinations thereof whether in process design industrial production or in related R D fields

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- Chapter 4: Principles Of Colloids And Surface Chemistry in Specific Contexts
- Chapter 5: Conclusion

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