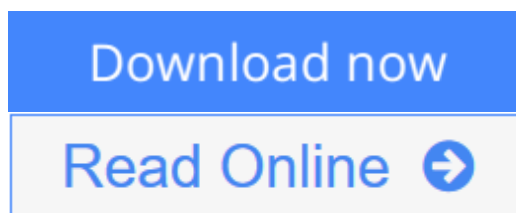


# Physical Chemistry, Solutions Manual

By Robert J. Silbey, Robert A. Alberty, Mounji G. Bawendi



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Ever since **Physical Chemistry** was first published in 1913 (then titled *Outlines of Theoretical Chemistry*, by Frederick Getman), it has remained a highly effective and relevant learning tool thanks to the efforts of physical chemists from all over the world. Each new edition has benefited from their suggestions and expert advice. The result of this remarkable tradition is now in your hands.

Now revised and updated, this Fourth Edition of **Physical Chemistry** by Silbey, Alberty, and Bawendi continues to present exceptionally clear explanations of concepts and methods. The basic theory of chemistry is presented from the viewpoint of academic physical chemists, but detailed discussions of practical applications are integrated throughout. The problems in the book also skillfully blend theory and applications.

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- A total of 170 computer problems appropriate for MATHEMATICA™, MATHCAD™, MATLAB™, or MAPLE™.
- Increased emphasis on the thermodynamics and kinetics of biochemical reactions, including the denaturation of proteins and nucleic acids.
- Expanded coverage of the uses of statistical mechanics, nuclear magnetic relaxation, nanoscience, and oscillating chemical reactions.
- Many new tables and figures throughout the text.

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From the Publisher

The authors offer more examples, more figures and many new problems. Two parallel sets of problems end each chapter. Begins by demonstrating the power and limits of thermodynamics with a more systematic treatment of the second law and more focus on entropy. Section Two deals with the description of molecular properties and spectroscopy utilizing quantum mechanical ideas. Introduced early--eigenvectors, eigenvalues and linear operators appear throughout. Section Three, dealing with statistical mechanics and kinetics, has been completely revised in a clear and interesting way. The final section, Macroscopic and Microscopic Structures, provides two new chapters on macromolecules and surface dynamics, emphasizing the application of SI units and the use of seven base units to represent all physical quantities.

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