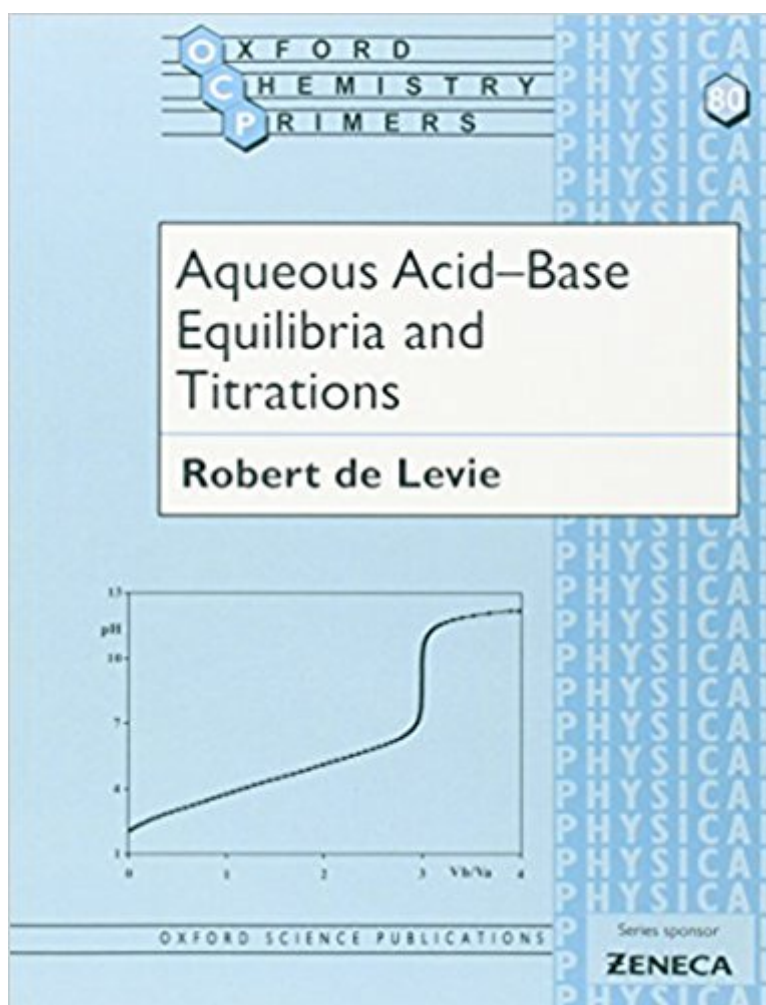


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# Aqueous Acid-base Equilibria And Titrations



## Synopsis

This book will give students a thorough grounding in pH and associated equilibrium, material absolutely fundamental to the understanding of many aspects of chemistry. This book uses the new theoretical developments that have led to more generalized approaches to equilibrium problems which are often simpler than the approximations which they replace. For example: Acid-base problems are readily addressed in terms of the proton condition, the graphical approach of Bjerrum, H<sub>2</sub>CO<sub>3</sub>, and SiO<sub>2</sub> is used to illustrate the orders of magnitude of the concentrations of the various species involved in chemical equilibria, and in the description of acid-base titrations a general master equation is developed. This text also provides a continuous and complete description of the entire titration curve and graphical estimates of the steepness of titration curves. Finally, an entire chapter is devoted to what the pH meter measures, and to the experimental and theoretical uncertainties involved.

## Book Information

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## Customer Reviews

Prof Robert de Levie, Georgetown University, Department of Chemistry, Box 571227, Washington D.C. 20057-1227, U.S.A. fax 202 687 6209 From July 1 1999: Chemistry Department, Bowdoin College, Brunswick M.E.04011, U.S.A.

Spend your money on something better than this. It is merely an over-priced booklet; I returned it for

a refund and lost 50% on a rip-off re-stocking fee.

Awesome - concise and informative.

Fine inexpensive and brief text

This is a really good book. It teaches how to solve simple acid-base calculations from a crude sketch in the sand, to more advanced cases where you need iterative methods. It's actually more practical and directed against finding the CHEMICAL information than all simpler books I have encountered. It's not an introduction booklet in chemistry; it's more for the somewhat more advanced but still practical uses. But it's marred with the lack of a really thorough proofreading. If you study the text hard because you need to understand the techniques thoroughly, you will discover what must be "typing errors". And there are diagrams that show one to three curves less than what is described in the text. And none of these curves are numbered, so you can't be sure which curves are overlapped with supporting lines. - This makes the book unnecessary labourous to read. If these errors are removed in a second edition, the book will deserve 5 stars. In a book of this type it would also do with a handful of excersises at the end of each chapter, with answers at the end of the book.

Teaching solution equilibria has always been a difficult task for college professors. Professor de Levie has shown how this subject can be made more palatable for students. This is most clearly demonstrated in his discussion of acid-base titrations. By using spread-sheet techniques and treating pH as an independent rather than dependent variable, titration curves are easily generated without making approximations. de Levie's approach is unique. The popular textbooks dealing with this subject still involve the "old fashioned" approach, which is a pedagogical nightmare. This book is a MUST for all those who teach solution equilibria at the freshman and sophomore levels in colleges and universities. I doubt that it would be a suitable textbook for the students in these courses because of the detail involved. However, the book is highly recommended for courses dealing with solution equilibria at the upper division level.

It is a very good book, specially for basic analytical chemistry. It is difficult to find a book where the student can find a lot of examples very well considered. The acid base equilibrium is the basis for understanding ionic equilibrium and sometimes you lose inside the mathematical aspects but forgetting the chemical aspects. I recommend this book, not only for students but also for profesors

in the subject.

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