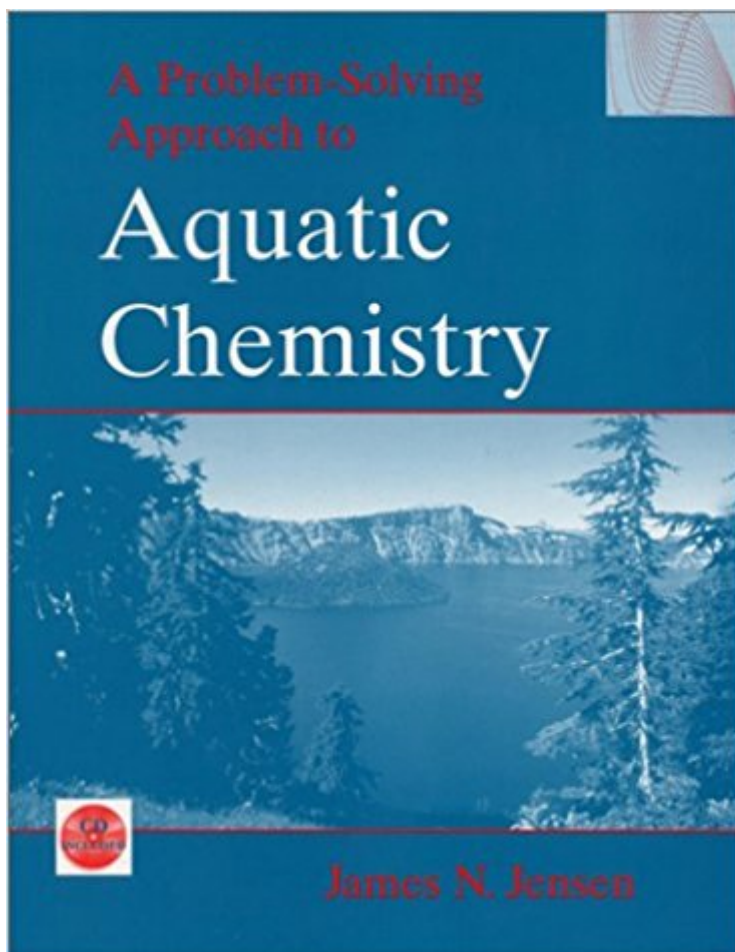


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# A Problem-Solving Approach To Aquatic Chemistry



## Synopsis

This text provides a detailed introduction to aquatic equilibrium chemistry, calculation methods for systems at equilibrium, applications of aquatic chemistry, and chemical kinetics. Software designed especially for the text allows the reader to build complex models by applying equilibrium calculation principles. Important features include material-specific and integrated case studies, thought-provoking questions, key ideas, and historical sketches.

## Book Information

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## Customer Reviews

Need help in understanding the key concepts of aquatic chemistry? If you're looking for a unique, thorough introduction to aquatic chemistry that is easy to understand, you have found it! The book you are now holding provides a detailed, hands-on introduction to aquatic equilibrium chemistry, calculation methods for systems at equilibrium, applications of aquatic chemistry, and chemical kinetics. More than just a presentation of facts, this essential text includes equilibrium calculation software, which allows you to build complex models by applying equilibrium calculation principles. This book has been designed to be easy to use and easy to understand. Here's how it works: Each chapter begins with an introduction that provides a guide to chapter material and ends with a summary that reviews the chapter's main points. Important terms are defined in context and key ideas are summarized in the margins. Thoughtful Pauses throughout the presentation provide provocative questions whose answers are found in the text. This simulates the give-and-take found in the classroom. Examples illustrate key quantitative concepts. Each major division of the text

begins with a case study. A portion of the case study is addressed in each subsequent chapter illustrating the principles of that chapter.

Difficult subject made more difficult by the number of errors in the book. On Dec. 16, 2015, I submitted an unconfirmed Errata Sheet ((66 obvious errors; mostly grammar/word tense; a few calculation errors; one or two critical concept errors (especially the text, in several places, saying  $K = \text{reactants/products}$  instead of  $K = \text{products/reactants}$ )) to the publisher (Wiley), to (rental book), and to my professor. Index needs to be expanded (too short). No solutions provided for problems in chapters.

I purchased this book only because our professor recommended it. I could not understand anything from this book. Some examples at the left or right side of the book in a very short form. The author is trying to save some page I guess, the majority of examples are written as a text format which means it has a lot of shortcuts that you don't understand how it solved. It has also a lot of repeating sentences.

I'd give it a 1 for what my aquatic chem class put me through. But the book wasn't totally unfair. Not very user friendly. There were a fair amount of mistakes in it though. Covers all the mathematics behind chemical reactions in aqueous systems.

I would have liked more examples worked out, or at least the examples that were worked out to be better explained. The book seemed to make topics more confusing than they needed to be.

Excellent timing and good quality. No torn or anything written inside the pages. Hard cover is a plus. It is worth buying.

I got the book very fast and it was the same as described by the seller.

Of all textbooks I've ever used, this has by far been the least useful, particularly for a class that has extremely dense and difficult content to grasp. Our university professors seem to be in love with this text and have it mandated to be the official Environmental Chemistry course textbook. Whatever the Professors see in this text, I cannot. If one has a belt of the three General Chemistry Classes (Basics, Thermodynamics/Acids/Bases and Kinematics, and Theoretical), they will still be quite

lacking in terms of ability to discern exactly how to perform the necessary calculations needed to solve these very important problems. The examples are far and few, if any, for anyone trying to apply the concepts. I find this very ironic given the text's title, a problem solving approach. You'd think one would have more than 3-5 problems to muscle out per chapter, and what's particularly annoying is the lack of an answer guide to show how to derive the solutions for end-chapter exercises. Overall the poorest text on the subject to introduce aquatic problem solving methods to students to. There are superior ones, and subjecting college students to this as a main text to go off of is cruel and horrific of the instructors and colleges. However, professionals in the environmental engineering field, environmental chemistry and those with masters and doctoral level understanding of chemistry might get a lot from this text given their already-existing knowledge base for the content. It's just a shame this is required at universities as a text, and not cataloged as purely a reference text for professionals already in the field. All in all, a SUCKY TEXT, but good for people who already know the material. To my fellow students, if you're new to E Chem, Water Chem and/or Aquatic Chem like I was, AVOID THIS TEXT AT ALL POSSIBLE COSTS! If it's unavoidable and you must use this textbook, don't buy, just rent. It's not worth keeping this deplorable text. I'd strongly recommend "Water Chemistry: An Introduction to the Chemistry of Natural and Engineered Aquatic Systems 1st Edition by Patrick Brezonik and William Arnold." It's expensive as hell but vastly better in teaching you the material. Also explore the plethora of online resources to help yourself and your fellow students. Band together if you get this text.

I took Aquatic Chemistry as a senior and had very little help from this book. There are few examples and there are no guided practice problems/solutions. That is good for the professor I guess since they don't have to worry about homework as much, but my chemistry books always have at least odd numbered problems with solutions and a solutions manual so you know whether or not you're doing the problems right. I would recommend against even thinking about buying this book.

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