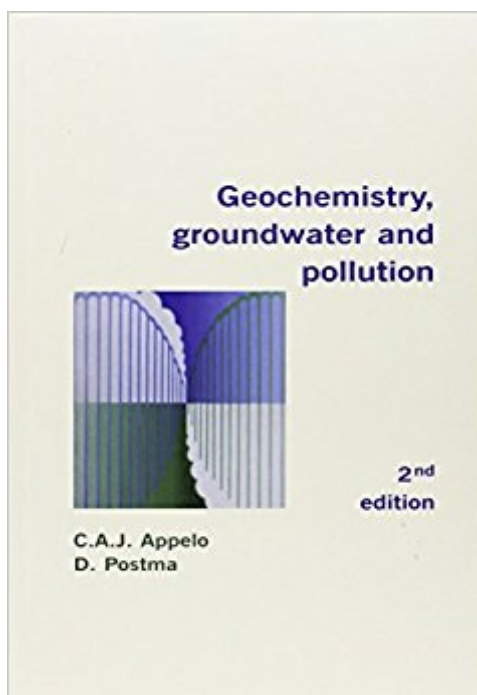


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# Geochemistry, Groundwater And Pollution, Second Edition



## Synopsis

Building on the success of its 1993 predecessor, this second edition of *Geochemistry, Groundwater and Pollution* has been thoroughly re-written, updated and extended to provide a complete and authoritative account of modern hydrogeochemistry. Offering a quantitative approach to the study of groundwater quality and the interaction of water, minerals, gases, pollutants and microbes, this book shows how physical and chemical theory can be applied to explain observed water qualities and variations over space and time. Integral to the presentation, geochemical modelling using PHREEQC code is demonstrated, with step-by-step instructions for calculating and simulating field and laboratory data. Numerous figures and tables illustrate the theory, while worked examples including calculations and theoretical explanations assist the reader in gaining a deeper understanding of the concepts involved. A crucial read for students of hydrogeology, geochemistry and civil engineering, professionals in the water sciences will also find inspiration in the practical examples and modeling templates.

## Book Information

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## Customer Reviews

"An extremely handy reference book ...a source of inspiration for the study, simulation and prediction of groundwater quality..." P. Stuyfzand and B van Breukelen, Vrije Universiteit Amsterdam "Highly informative and comprehensive. It is detailed, but easy to read. The authors provide wide ranging examples of environmental case studies and demonstrate their broad knowledge of the field. I highly recommend this book as the primary textbook for groundwater

geochemistry classes and as at least a supplemental text for general environmental geochemistry courses..." Sabine Goldberg, USDA-ARS in Vadose Zone Journal, published on line 8 March 2006. "A realistically priced title for students and graduates wanting to extend their knowledge of groundwater chemistry and soil-water-chemistry. There are practical examples and models illustrated to ensure a better understanding of the application of theory to real life situations..." Australian Water Association Journal

Dr Tony Appelo is a consultant based in Amsterdam, the Netherlands. Dr Dieke Postma teaches at the Danish Technical University in Lyngby, Denmark.

Pros and Cons  
Pros: Thorough in all geochemistry topics  
Lots of graphs  
Citations of many relevant research papers  
Cons: Very difficult to read (rarely defines chemistry jargon, does not start topics broadly and then get more complex, it is just complex)  
Difficult to find what you need (index, chapters, and subchapters are very poorly labeled and organized)

A lot of examples and good explanations for equations involving hydrology-related geochem. Probably a little more advanced than what I actually needed for class, however I am glad I bought it as I think it is going to explain a lot more to me certain aspects of environmental geochemistry than my professor will.

The product was worth for the price and the seller delivered it on time. Keep up!!

Possible the worst book I've ever used. The end of chapter questions are confusing and the answers in the back of the book either don't answer the question or give an answer unrelated to the original question. The book is full of typos and awkward grammar. There are typos in the the math as well so I was never confident that problems in the book were being worked correctly. Avoid this book at all costs.

I was disappointed in this purchase for several reasons. First, I did not understand - and the website did not make clear that I cannot use Prime with a PO Box. So it took about 3 weeks for me to get this book. That meant that for three weeks into the semester I did not have access to this text book. When it finally arrived, the very first time I opened it, the pages came loose from the binding. The binding appears to be very poor quality, which is a surprise for such an expensive textbook. I

would like to return this book because it will not stand up to wear. Patricia Bobeck

if you've never taken an aqueous geochemistry class before-like me- do not get this book! It's confusing, poorly written, explains nothing, worked out questions in the back of the book barely give you the answers you need and it's just a waste of time. I've been using it to study for my final and can honestly say I may be worse off from ever opening it. Unless your professor wants you to do homework from it ( I highly doubt they would) save your money because this book will not help you.

This is a great book for students and professionals alike. Starts with the very basics of water chemistry and covers almost everything that one could think of. What sets this book apart from other chemical hydrogeology books is the extensive integration of PHREQC and the many links to free useful applications and graphing tools. I highly recommend this book.

The second edition of Appelo's textbook / reference volume is among the best written and enjoyable books available on groundwater. The figures are original, clear, and appropriate, and the text follows an intellectually solid, but very readable format. Definitely a requisite book for the student and professional.

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