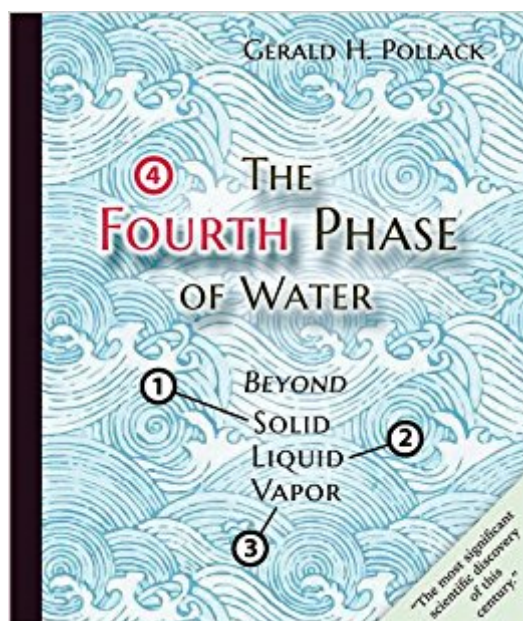


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# The Fourth Phase Of Water: Beyond Solid, Liquid, And Vapor



## Synopsis

What mysteries lurk in the depths of a glass of water? What makes the wispy clouds of vapour rising from your cup of hot coffee? Or the puffy white clouds hovering in the sky? Why do bubbles in your fizzy drinks get bigger the longer you wait? What keeps Jelly's water from oozing out? Why does your tongue stick to something frozen? Professor Pollack takes us on a fantastic voyage through water, showing us a hidden universe teeming with physical activity, providing cogent explanations to many of water's long-held secrets. In conversational prose, Pollack exposes where some scientists may have gone wrong, and instead lays a simple foundation for understanding how changes of water structure underlie most energetic transitions of form and motion on Earth. This seminal work, peppered with whimsical illustrations and simple diagrams invites us to open our eyes and re-experience our natural world, to take nothing for granted, and to reawaken our childhood dream of having things make sense.

## Book Information

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## Customer Reviews

Ever wonder... What mysteries lurk in the depths of a glass of water? What makes the wispy clouds of vapor rising from your cup of hot coffee? Or the puffy white clouds hovering in the sky? Why do the bubbles in your pop get bigger the longer you wait? What keeps Jell-O's water from oozing out? Why does your tongue stick to something frozen? And why don't your joints squeak? Questions such as those have remained unanswered not only because they have seemed complex, but also because they require that scientists pursue a politically risky domain of science: water research.

Scientists trying to understand the "social behavior" of H<sub>2</sub>O do so at grave risk to their reputations and livelihoods because water science has suffered repeated fiascos. Water scientists have been virtually tarred and feathered. Undaunted, one scientist has navigated the perils of water science by conducting dozens of simple, carefully controlled experiments and piecing together the first coherent account of water's three dimensional structure and behavior. Professor Pollack takes us on a fantastic voyage through water, showing us a hidden universe teeming with physical activity that provides answers so simple that any curious person can understand. In conversational prose, Pollack relentlessly documents just where some scientists may have gone wrong with their Byzantine theories, and instead lays a simple foundation for understanding how changes of water structure underlie most energetic transitions of form and motion on Earth. Pollack invites us to open our eyes and re-experience our natural world, to take nothing for granted, and to reawaken our childhood dream of having things make sense.

"The most interesting science book I've ever read. It has shown me that it's still possible to establish something genuinely new in science." Zhiliang Gong, University of Chicago."The most significant scientific discovery of this century. What strikes me above all is the elegant simplicity of [Pollack's] experimental approach. Many of the experiments can be done on the kitchen table, and you don't even need a microscope to see the results." Mae-Wan Ho, Author, Living Rainbow H<sub>2</sub>O; Director, Institute of Science and Society, London."Dr. Pollack is one of the pioneers in this field, and his discoveries can be expected to have important implications." Brian Josephson, Nobel Laureate, Cambridge University."Fantastic material with revolutionary insights. What impresses me most is that the experiments are visually instantly accessible." Helmut Roniger, Consulting physician"I blame Pollack for my chronic loss of sleep during the past week. Devouring his book has inspired in me a whole new burst of enthusiasm for science." Jason Gillen, Massage therapist, Sydney Australia."The most original thinker I have ever met." Csaba Galambos, University of Colorado"Einstein has got nothing on Pollack. Pollack has the uncanny ability to pinpoint the right questions and grasp the simple ideas." Capt. T.C. Randall, Author, Forbidden Healing"This is like getting new glasses! The clarity is astounding." Charles Cushing, Independent Scientist"Unputdownable." Nigel Dyer, University of Warwick, UK."As good a page-turner as a Dan Brown novel. ... this book has a folksy style that I know will be very popular." David Anick, Harvard University"By Chapter 5 I was spellbound. By the end I was so captivated by the implications that I wished I could begin again in science and follow the new path this work has shaped." Kathryn Devereaux, Science writer, UC Davis"With balance and grace, Pollack seems to have come closest

to presenting a 'unified field' vision of matter through the lens of water." Â John Fellows, Independent ScientistÂ "This amazing book has changed my understanding of all the processes going on in water which I was confident I knew about -- the understanding that dictated my many years of teaching and organized my research. Â I must now come to terms with the demonstration that water is not just a medium in which physics and chemistry happen, but a machine that powers and manages physics and chemistry." Martin Canny, Australian National University"Brilliant! Read the last chapter first." Â Molly McGee, University of Washington

Major work of scientific investigation . The key to many phenomina are found in these pages . Strange that the establishment aren't eulogizing this work but the connection between water's liquid crystalline matix lattic EZ and the DNA structure strongly implies knowledge of science and evolution (because DNA could grow on this EZ lattic ) the establishment has been trying to keep hidden . I say this because the phenomina Pollack discovers and describes are not that hard to come upon and draw one logical conclusion after another to this ; Pollacks final picture. I just can't believe others haven't looked into this pre internet and the information kicked under the carpet .Anyway this will supply break throughs in many fields especially water purification and desalination .

I suppose I should read the whole book before posting a review about it, but after devouring quite a bit of the information I believe I've read enough to come to a conclusion on the validity and excellence of the work. The author makes it remarkably clear that there are properties of water that "we" never knew existed, and backs it up with sound science and brilliant pictures, diagrams, charts (the visual aspect of this book makes it very readable). The delivery is great... the background and explanations are great, the history and connection to living systems... excellent food for thought. I think that even if this theory were totally debunked in 10 years, it's still a highly interesting read.

Amazing book, I'm a college dropout but always had an interest in science. Wasn't too hard to understand compared to the material in college. Probably one of the more important books leading into the future.

What an amazing book! I have been fascinated by water; the nature of, for many years. There have been other books about water but they were usually cheap imitations of Loren Eiseley's work. I am only now learning about why water freezes from the top down and many other topics. This scientific

approach is difficult for me. I wish that I would have paid closer attention in chemistry class. I keep plugging through the explanation of the water atoms and how the added protons help everything stick together. Maybe if I reread some of these chapters enough times, I will begin to understand what is being said. This is a book that everyone should read but few will. When I lay in the pool floating high in the water, I am constantly amazed that the water can hold me up without me needing to splash around. There are so many unanswered questions about water that it is hard to know where to start. There are fresh approaches now among scientists about where water comes from. When you realize that it is almost impossible to "make" water in the lab, it all becomes even more fascinating. You can't just take a couple of hydrogen atoms and combine them in a test tube with some Oxygen atoms and end up with a glass of water. Sooner or later you will end up thinking like Loren Eiseley again.

This book peels away so much of what I used to think to be true about the Universe & how physical matter & energy relate. Actually, everything is energy at different frequencies. Very interesting reading. Combined with other research, I believe everything stated in this book to be true.

Scientific info but not boring. Easily digestible chapters. If you like TED talks, you'll enjoy this one. Really, really, really interesting book.

I think every high school student should have this as a prerequisite for all studies in the sciences. We have been sold the "everybody knows" about water and its properties. If students are educated on these principles that Mr. Pollack presents who knows maybe some earth changing discoveries may be found. It is hard to solve an equation if you have been given the wrong formula from day one.

This is a fascinating book. I am learning a lot about chemistry as well as biochemistry. I enjoy the writing style - lively, entertaining - and the illustrations are charming. Graphs and diagrams are clearly explained. Best of all, no formulas so far! This book goes very well with Nick Lane's, "The Vital Question".

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