



Chemical Principles

By Peter Atkins, Loretta Jones, Leroy Laverman

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Written for calculus-inclusive general chemistry courses, *Chemical Principles* helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications. Unlike other texts, it begins with a detailed picture of the atom then builds toward chemistry's frontier, continually demonstrating how to solve problems, think about nature and matter, and visualize chemical concepts as working chemists do.

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Editorial Review

About the Author

Peter Atkins is a fellow of Lincoln College in the University of Oxford and the author of about 70 books for students and a general audience. His texts are market leaders around the globe. A frequent lecturer in the United States and throughout the world, he has held visiting professorships in France, Israel, Japan, China, and New Zealand. He was the founding chairman of the Committee on Chemistry Education of the International Union of Pure and Applied Chemistry and was a member of IUPAC's Physical and Biophysical Chemistry Division.

Loretta L. Jones is Emeritus Professor of Chemistry at the University of Northern Colorado. She taught general chemistry there for 16 years and at the University of Illinois at Urbana-Champaign for 13 years. She earned a BS in honors chemistry from Loyola University, an MS in organic chemistry from the University of Chicago, and a Ph.D. in physical chemistry as well as a D.A. in chemical education from the University of Illinois at Chicago. Her physical chemistry research used electron paramagnetic resonance to investigate motion in liquids. Her chemical education research focuses on helping students to understand the molecular basis of chemistry through visualization. In 2001, she chaired the Gordon Research Conference on Visualization in Science and Education. In 2006 she chaired the Chemical Education Division of the American Chemical Society (ACS). She is a Fellow of the American Association for the Advancement of Science and the coauthor of award-winning multimedia courseware. In 2012 she received the ACS Award for Achievement in Research in the Teaching and Learning of Chemistry.

Leroy E. Laverman is a senior lecturer in the Department of Chemistry and Biochemistry at the University of California, Santa Barbara. He earned a B.S. in Chemistry from Washington State University and received his Ph.D. from U.C. Santa Barbara where he worked on ligand exchange reaction mechanisms in metalloporphyrins. He has been teaching chemistry at UCSB since 2000 and continues to instruct students in general chemistry and honors level courses.

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