



Chemistry for Environmental Engineering and Science

By Clair Sawyer, Perry McCarty, Gene Parkin

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This is the definitive text in a market consisting of senior and graduate environmental engineering students who are taking a chemistry course. The text is divided into a chemistry fundamentals section and a section on water and wastewater analysis. In this new edition, the authors have retained the thorough, yet concise, coverage of basic chemical principles from general, physical, equilibrium, organic, biochemistry, colloid, and nuclear chemistry. In addition, the authors have retained their classic two-fold approach of (1) focusing on the aspects of chemistry that are particularly valuable for solving environmental problems, and (2) laying the groundwork for understanding water and wastewater analysis—a fundamental basis of environmental engineering practice and research.

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Editorial Review

About the Author

Gene F. Parkin is a professor of Civil and Environmental Engineering at the University of Iowa, and Director of the Center for Health Effects of Environmental Contamination. He received a B.S. Degree in Civil Engineering and an M.S. Degree in Sanitary Engineering from the University of Iowa and a Ph.D. Degree in Environmental Engineering from Stanford University. He taught at Drexel University for eight years before joining the faculty at the University of Iowa in 1986. His teaching interests have been in biological treatment processes and environmental chemistry. His research has been directed toward anaerobic biological processes and bioremediation of waters contaminated with organic chemicals. He has received the J. James R. Croes Medal from the American Society of Civil Engineers and the Harrison Prescott Eddy Medal from the Water Environment Federation. In 1989 he received the Hancher-Finkbine Medallion from the University of Iowa for outstanding teaching and leadership, and in 1999 he received a state of Iowa, Board of Regents Award for Faculty Excellence.

Perry L. McCarty is the Silas H. Palmer Professor Emeritus of Civil and Environmental Engineering at Stanford University. He received a B.S. Degree in Civil Engineering from Wayne State University and S.M. and Sc.D. Degrees in Sanitary Engineering from the Massachusetts Institute of Technology, where he taught for four years. In 1962 he joined the faculty at Stanford University. His research has been directed towards the application of biological processes for the solution of environmental problems. He is an honorary member of the American Water Works Association and the Water Environment Federation, and Fellow in the American Academy of Arts and Sciences, the American Association for the Advancement of Science, and the American Academy of Microbiology. He was elected to the National Academy of Engineering in 1977. He received the Tyler Prize for environmental achievement in 1992 and the Clark Prize for outstanding achievement in water science and technology in 1997.

The late Clair N. Sawyer was active in the field of Sanitary Chemistry for over 30 years. He was received a Ph.D. from the University of Wisconsin. As Professor of Sanitary Chemistry at the Massachusetts Institute of Technology, he taught and directed research until 1958. He then was appointed Vice President and Director of Research at Metcalf and Eddy, Inc., and served as a consultant on numerous water and waste-water treatment projects in the United States and many foreign countries. After retiring, he served as an environmental consultant for several years. He passed away in 1992. He was the originator and sole author of the first edition, which published in 1960.

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