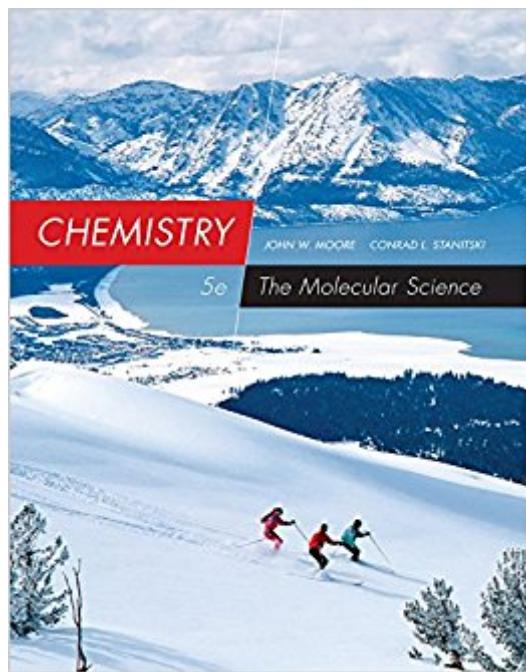


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Appendix A: Problem Solving and Mathematical Operations.

Appendix B: Units, Equivalences, and Conversion Factors.

Appendix C: Physical Constants and Sources of Data.

Appendix D: Ground-State Electron Configurations of Atoms.

Appendix E: Naming Simple Organic Compounds. Appendix F: Ionization Constants for Weak Acids at 25-C. Appendix G: Ionization Constants for Weak Bases at 25-C. Appendix H: Solubility Product Constants for Some Inorganic Compounds at 25-C. Appendix I: Standard Reduction Potentials in Aqueous Solution at 25 -C. Appendix J: Selected Thermodynamic Values. Appendix K: Answers to Problem-Solving Practice Problems. Appendix L: Answers to Exercises. Appendix M: Answers to Selected Questions for Review and Thought. --This text refers to the Hardcover edition.

John W. Moore received an A.B. magna cum laude from Franklin and Marshall College and a Ph.D. from Northwestern University. He held a National Science Foundation (NSF) postdoctoral fellowship at the University of Copenhagen and taught at Indiana University and Eastern Michigan University before joining the faculty of the University of Wisconsin-Madison in 1989. At the University of Wisconsin, Dr. Moore is W.T. Lippincott Professor of Chemistry and Director of the Institute for Chemical Education. He was Editor of the Journal of Chemical Education (JCE) from 1996 to 2009. Among his many awards are the American Chemical Society (ACS) George C. Pimentel Award in Chemical Education and the James Flack Norris Award for Excellence in Teaching Chemistry. He is a Fellow of the ACS and of the American Association for the Advancement of Science (AAAS). In 2003 he won the Benjamin Smith Reynolds Award at the University of Wisconsin-Madison in recognition of his excellence in teaching chemistry to engineering students. Dr. Moore is a major developer of online chemistry learning materials having collected and developed both video and tutorial materials available through the NSF-sponsored ChemEd DL. Conrad L. Stanitski is currently a Visiting Scholar at Franklin and Marshall College and is Distinguished Emeritus Professor of Chemistry at the University of Central Arkansas. He received his B.S. in Science Education from Bloomsburg State College, M.A. in Chemical Education from the University of Northern Iowa, and Ph.D. in Inorganic Chemistry from the University of Connecticut. He has co-authored chemistry textbooks for science majors, allied health science students, non-science majors, and high school chemistry students. Among Dr. Stanitski's many awards are the American Chemical Society (ACS) George C. Pimentel Award in Chemical Education, the CMA CATALYST National Award for Excellence in Chemistry Teaching, the Gustav Ohaus-National Science Teachers Association Award for Creative Innovations in College Science Teaching, the Thomas R. Branch Award for Teaching Excellence and the Samuel Nelson Gray Distinguished Professor Award from Randolph-Macon College, and the 2002 Western Connecticut ACS Section Visiting Scientist Award. He was Chair of the American Chemical Society Division of Chemical Education (2001) and has been an elected Councilor for that division. He is a Fellow of the American Association for the

Advancement of Science (AAAS). An instrumental and vocal performer, he also enjoys jogging, tennis, and reading.

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