



# Introductory Chemistry

By Steven S. Zumdahl, Donald J. DeCoste

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The Eighth Edition of Zumdahl and DeCoste's best-selling **INTRODUCTORY CHEMISTRY: A FOUNDATION** combines enhanced problem-solving structure with substantial pedagogy to enable students to become strong independent problem solvers in the introductory course and beyond. Capturing student interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own understanding of the solution. This step-by-step approach has already helped hundreds of thousands of students master chemical concepts and develop problem-solving skills. The book is known for its focus on conceptual learning and for the way it motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and "Chemistry in Focus" boxes.

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#### Review

1. Chemistry: An Introduction. 2. Measurements and Calculations. 3. Matter. 4. Chemical Foundations: Elements, Atoms, and Ions. 5. Nomenclature. 6. Chemical Reactions: An Introduction. 7. Reactions in Aqueous Solutions. 8. Chemical Composition. 9. Chemical Quantities. 10. Energy. 11. Modern Atomic Theory. 12. Chemical Bonding. 13. Gases. 14. Liquids and Solids. 15. Solutions. 16. Acids and Bases. 17. Equilibrium. 18. Oxidation-Reduction Reactions and Electrochemistry. 19. Radioactivity and Nuclear Energy.

#### About the Author

Steve Zumdahl is the author of market-leading textbooks in introductory chemistry, general chemistry, honors-level chemistry, and high school chemistry. Recently retired from his long-time position as Director of Undergraduate Programs at the University of Illinois, he has received numerous awards for his contributions to chemical education. These include the National Catalyst Award in recognition of his contribution to chemical education, the University of Illinois Teaching Award, the UIUC Liberal Arts and Sciences Advising Award, and the School of Chemical Sciences Teaching Award (five times). He earned his BS in Chemistry from Wheaton College (IL), and his PhD from the University of Illinois.

Donald J. DeCoste is Associate Director of General Chemistry at the University of Illinois, Urbana-Champaign, and has been teaching chemistry at the high school and college levels for over 25 years. He earned his BS in Chemistry and PhD from the University of Illinois, Urbana-Champaign. At UIUC he teaches courses in introductory chemistry and the teaching of chemistry and has developed chemistry courses for non-science majors, preservice secondary teachers, and preservice elementary teachers. He has received the LAS Award for Excellence in Undergraduate Teaching, the Provost's Excellence in Undergraduate Teaching Award, and the School of Chemical Sciences Teaching Award four times. Don has led workshops for secondary teachers and graduate student teaching assistants, discussing the methods and benefits of getting students more actively involved in class. When not involved in teaching and advising, Don enjoys spending time with his wife and three children.

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