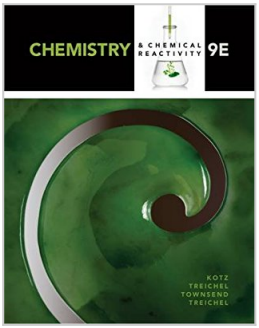

Chemistry & Chemical Reactivity

By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel

Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel

Succeed in chemistry with the clear explanations, problem-solving strategies, and dynamic study tools of CHEMISTRY & CHEMICAL REACTIVITY, 9e. Combining thorough instruction with the powerful multimedia tools you need to develop a deeper understanding of general chemistry concepts, the text emphasizes the visual nature of chemistry, illustrating the close interrelationship of the macroscopic, symbolic, and particulate levels of chemistry. The art program illustrates each of these levels in engaging detail--and is fully integrated with key media components. In addition access to OWLv2 may be purchased separately or at a special price if packaged with this text. OWLv2 is an online homework and tutorial system that helps you maximize your study time and improve your success in the course. OWLv2 includes an interactive eBook, as well as hundreds of guided simulations, animations, and video clips.

Chemistry & Chemical Reactivity

By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel

Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel

Succeed in chemistry with the clear explanations, problem-solving strategies, and dynamic study tools of CHEMISTRY & CHEMICAL REACTIVITY, 9e. Combining thorough instruction with the powerful multimedia tools you need to develop a deeper understanding of general chemistry concepts, the text emphasizes the visual nature of chemistry, illustrating the close interrelationship of the macroscopic, symbolic, and particulate levels of chemistry. The art program illustrates each of these levels in engaging detail--and is fully integrated with key media components. In addition access to OWLv2 may be purchased separately or at a special price if packaged with this text. OWLv2 is an online homework and tutorial system that helps you maximize your study time and improve your success in the course. OWLv2 includes an interactive eBook, as well as hundreds of guided simulations, animations, and video clips.

Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel Bibliography

- Sales Rank: #73840 in Books
- Published on: 2014-01-27
- Original language: English
- Number of items: 1
- Dimensions: 10.90" h x 1.80" w x 8.80" l, .0 pounds
- Binding: Hardcover
- 1408 pages

Editorial Review

Review
PART I: CONCEPTS OF CHEMISTRY. 1. Basic Concepts of Chemistry. Let's Review: The Tools of Quantitative Chemistry. 2. Atoms, Molecules, and Ions. 3. Chemical Reactions. 4. Stoichiometry: Quantitative Information from Chemical Reactions. 5. Principles of Chemical Reactivity: Energy and Chemical Reactions. PART II: ATOMS AND MOLECULES. 6. The Structure of Atoms. 7. The Structure of Atoms and Periodic Trends. 8. Covalent Bonding and Molecular Structure. 9. Bonding and Molecular Structure - Valence Bond and Molecular Orbital Theory. Part 3: States of Matter. 10. Gases and Their Properties. 11. Intermolecular Forces and Liquids. 12. Ionic Bonding, Metals, and the Solid State. 13. Solutions and Their Behavior. PART IV: THE CONTROL OF CHEMICAL REACTIONS. 14. Chemical Kinetics - The Rates of Chemical Reactions. 15. Principles of Reactivity: Chemical Equilibria. 16. Equlibria and Acids and Bases. 17. Principles of Reactivity: Other Aspects of Aqueous Equilibria. 18. Thermodynamics - Entropy and Free Energy. 19. Principles of Reactivity: Electron Transfer Reactions. PART V: THE CHEMISTRY OF THE ELEMENTS. 20. Environmental Chemistry: Earth's Environment, Energy, and Sustainability. 21. The Chemistry of the Main Group Elements. 22. The Chemistry of the Transition Elements. 23. Carbon: Not Just Another Element. 24. Biochemistry. 25. Nuclear Chemistry. Appendix A: Using Logarithms and the Quadratic Equation. Appendix B: Some Important Physical Concepts. Appendix C: Abbreviations and Useful Conversion Factors. Appendix D: Physical Constants. Appendix E: Naming Organic Compounds. Appendix F: Values for the Ionization Energies and Electron Affinities of the Elements. Appendix G: Vapor Pressure of Water at Various Temperatures. Appendix H: Ionization Constants for Weak Acids at 25 * C. Appendix I: Ionization Constants for Weak Bases at 25 * C. Appendix J: Solubility Product Constants for Some Inorganic Compounds at 25 * C. Appendix K: Formation Constants for Some Complex Ions in Aqueous Solution. Appendix L: Selected Thermodynamic Values. Appendix M: Standard Reduction Potentials in Aqueous Solution at 25 * C. Appendix N: Answers to Chapter Opening and Case Study Questions, Check Your Understanding Questions, Review and Check Questions, and Selected Study Questions.

About the Author
John C. Kotz is an emeritus State University of New York Distinguished Teaching Professor at the College at Oneonta. Educated at Washington and Lee University, as well as Cornell University, he held National Institutes of Health postdoctoral appointments at the University of Manchester Institute for Science and Technology in England and at Indiana University. Professor Kotz has co-authored three textbooks in several editions - INORGANIC CHEMISTRY, CHEMISTRY & CHEMICAL REACTIVITY, and THE CHEMICAL WORLD - along with the INTERACTIVE GENERAL CHEMISTRY CD-ROM. He also has published research on inorganic chemistry and electrochemistry. He was a Fulbright Lecturer and Research Scholar in Portugal in 1979 and a visiting professor there in 1992, as well as a visiting professor at the Institute for Chemical Education (University of Wisconsin, 1991-1992) and at Auckland University in New Zealand (1999). He also was an invited speaker at a meeting of the South African Chemical Society and at the biennial conference for secondary school chemistry teachers in New Zealand. In addition, a recent tenure as a mentor of the U.S. Chemistry Olympiad Team, Professor Kotz has received numerous honors, including a State University of New York Chancellor's Award (1979), a National Catalyst Award for Excellence in Teaching (1992), the Estee Lectureship in Chemical Education at the University of South Dakota (1998), the Visiting Scientist Award from the Western Connecticut Section of the American Chemical Society (1999), and the first annual Distinguished Education Award from the Binghamton (New York) Section of the American Chemical Society (2001).

Paul M. Treichel, received his B.S. degree from the University of Wisconsin in 1958 and a Ph.D. from Harvard University in 1962. After a year of postdoctoral study in London, he assumed a faculty position at the University of Wisconsin-Madison. He served as department chair from 1986 through 1995 and was awarded a Helfaer Professorship in 1996. He has held visiting faculty positions in South Africa (1975) and in Japan (1995). Retiring after 44 years as a faculty member in 2007, he is currently Emeritus Professor of Chemistry. During his faculty career he taught courses in general chemistry, inorganic chemistry, organometallic chemistry, and scientific ethics. Professor Treichel's research in organometallic and metal cluster chemistry and in mass spectrometry, aided by 75 graduate and undergraduate students, has led to more than 170 papers in scientific journals. He may be contacted by email at treichelpaul@me.com.

John R. Townsend, Professor of Chemistry at West Chester University of Pennsylvania, completed his B.A. in Chemistry as well as the Approved Program for Teacher Certification in Chemistry at the University of Delaware. After a career teaching high school science and mathematics, he earned his M.S. and Ph.D. in biophysical chemistry at Cornell University, where he also received the DuPont Teaching Award for his work as a teaching assistant. After teaching at Bloomsburg University, he joined the faculty at West Chester University, where he coordinates the chemistry education program for prospective high school teachers and the general chemistry lecture program for science majors. He has been the university supervisor for more than 60 prospective high school chemistry teachers during their student teaching semester. His research interests are in the fields of chemical education and biochemistry. He may be contacted by email at jtownsend@wcupa.edu.

David A. Treichel, Professor of Chemistry at Nebraska Wesleyan University, received a B.A. degree from Carleton College. He earned a M.S. and a Ph.D. in analytical chemistry at Northwestern University. After post-doctoral research at the University of Texas in Austin, he joined the faculty at Nebraska Wesleyan University. His research interests are in the fields of electrochemistry and surface-laser spectroscopy. He may be contacted by email at dat@nebrwesleyan.edu.

Users Review

From reader reviews:

Chris Hernandez:

Information is provisions for individuals to get better life, information presently can get by anyone on everywhere. The information can be a information or any news even restricted. What people must be consider any time those information which is inside the former life are challenging to be find than now is taking seriously which one works to believe or which one typically the resource are convinced. If you get the unstable resource then you buy it as your main information it will have huge disadvantage for you. All those possibilities will not happen in you if you take Chemistry & Chemical Reactivity as your daily resource information.

Steven Cordell:

Hey guys, do you wishes to finds a new book to see? May be the book with the headline Chemistry & Chemical Reactivity suitable to you? The actual book was written by well-known writer in this era. The actual book untitled Chemistry & Chemical Reactivityis one of several books this everyone read now. This kind of book was inspired many people in the world. When you read this guide you will enter the new dimension that you ever know just before. The author explained their strategy in the simple way, so all of

people can easily to comprehend the core of this e-book. This book will give you a wide range of information about this world now. So that you can see the represented of the world with this book.

Jennifer Bedard:

The book Chemistry & Chemical Reactivity will bring you to the new experience of reading some sort of book. The author style to describe the idea is very unique. When you try to find new book to see, this book very appropriate to you. The book Chemistry & Chemical Reactivity is much recommended to you you just read. You can also get the e-book in the official web site, so you can quickly to read the book.

Aaron Thomsen:

You could spend your free time to learn this book this book. This Chemistry & Chemical Reactivity is simple to deliver you can read it in the area, in the beach, train in addition to soon. If you did not have much space to bring typically the printed book, you can buy often the e-book. It is make you much easier to read it. You can save typically the book in your smart phone. So there are a lot of benefits that you will get when one buys this book.

Read Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel for online ebook

Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel books to read online.

Online Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel ebook PDF download

Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel Doc

Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel Mobipocket

Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel EPub

2OFPA5MT9ZS: Chemistry & Chemical Reactivity By John C. Kotz, Paul M. Treichel, John Townsend, David Treichel