



Experiments in General Chemistry: Featuring MeasureNet (Brooks/Cole Laboratory Series for General Chemistry)

By Bobby Stanton, Lin Zhu, Charles "Butch" Atwood

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Editorial Review

Review

Safety Rules. Common Laboratory Glassware and Equipment. 1. Densities of Some Liquids and Solids. 2. Specific Heat of Substances. 3. Chromatography. 4. Determination of the Percent by Mass of the Components in a Mixture by Thermal Gravimetric Analysis. 5. Self Directed-Thermal Insulating Materials. 6. Reaction Stoichiometry. 7. Types of Chemical Reactions. 8. Identifying Metal Ions and Inorganic Compounds by their Chemical Interactions. 9. Gravimetric Analysis of a Chloride, Sulfate, or Carbonate Compound. 10. Emission Analysis of Aqueous Solutions of Group IA and IIA Metal Salts. 11. Determination of Chromium (VI) Concentrations via Absorption Spectroscopy. 12. Determination of the Concentration of Acetic Acid in Vinegar. 13. Solubility, Polarity, Electrolytes, and Nonelectrolytes. 14. Self-Directed-Determination of the Cause of a Fish-Kill in the Clark Fork of the Columbia River. 15. Self-Directed-Quality Control for the Athenium Baking Soda Company. 16. Gas Laws. 17. Colligative Properties. 18. Soaps and Detergents. 19. Heats of Chemical and Physical Processes. 20. Hess's Law. 21. Determination of the Heat of Neutralization of a Variety of Strong Acids and Bases. 22. Dystan Medical Supply Company-Cold Packs and Hot Packs. 23. Kinetics-Reaction Orders. 24. Chemical Equilibria. 25. Determining the Equilibrium Constant for a Reaction. 26. Determining K_a of an Acid by Titration and from pH. 27. pH and Buffer Solutions. 28. Self-Directed-Identifying an Unknown Weak Acid. 29. Quality Control for GlassEx Window Cleaner. 30. Determining the Iron Content in Cereal. 31. Analyzing the Chemical Content of Chromite. 32. Determining the Time Interval Between Doses of a Cardiac Drug. 33. What is in This Container?

About the Author

Bobby Stanton received his Bachelor's and Master's Degrees from Tennessee Technological University and his doctorate from The University of Tennessee. He is an Academic Professional at the University of Georgia and serves as the Coordinator of General Chemistry Laboratories. He is involved in the development of Self-Directed (a form of guided inquiry) experiments designed for the MeasureNet Digital Data Acquisition System, and has authored or co-authored 15 publications in journals such as ANALYTICAL CHEMISTRY AND APPLIED SPECTROSCOPY.

Currently a faculty member at Indiana University - Purdue University at Indianapolis (IUPUI), Lin Zhu has taught at University of Hawaii at Manoa, University of Hawaii at Hilo, and University of Georgia. When he served as Franklin Fellow at the University of Georgia, he was involved in the development of experiments designed for the MeasureNet Digital Data Acquisition System. He has authored or co-authored articles in journals such as JOURNAL OF PHYSICAL CHEMISTRY and MICROPOROUS AND MESOPOROUS MATERIALS. Lin Zhu received his Bachelor's Degree from Peking University in Beijing, China, and his Ph.D. from University of Hawaii at Manoa.

Charles H. Atwood is a Professor of Chemistry at the University of Georgia, where he is Coordinator of Freshman Chemistry. His research includes new technologies for teaching and testing chemical phenomena, as well as emerging computer technologies to enhance teaching of freshman chemistry. He is the recipient of the University System of Georgia's Board of Regents 2009 Award for the Scholarship of Teaching and Learning. Dr. Atwood has authored several books and published articles in the Journal of Chemical Education, The Chemist, and Journal of Radioanalytical and Nuclear Chemistry. He received his Bachelor's Degree from Millsaps College and his Doctorate from Florida State University.

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