

Virtual Lab Manual

Basic Chemistry Thermodynamics: Solve the challenge of storing renewable energy

Synopsis

Energy is one of the great subject matters of our time, but what is energy actually? In this simulation you will learn the fundamental thermodynamic concepts of enthalpy, entropy and Gibbs free energy. You will also determine the internal energy of a chemical compound by using bomb calorimetry, and you'll even travel inside the calorimeter to see it in action!

The challenge of storing energy

What is the best way to store energy? There is no simple answer, but in this simulation, you will be encouraged to give it some thought while learning about the very nature of energy and how it connects to chemical reactions. You will assess whether the gasoline component octane is a suitable chemical for energy storage by using a bomb calorimeter.

The fundamental concepts of thermodynamics

The first and second laws of thermodynamics and the core concepts of enthalpy, entropy and Gibbs free energy are introduced in this simulation. You can play around with the energy levels of reactants and products on a virtual energy surface to learn about endothermic and exothermic reactions. The concept of reaction spontaneity is linked to the concept of Gibbs free energy and its temperature dependence is explored in an interactive game. You will have access to a state-of-the-art bomb calorimeter and can travel inside to see it in action, in order to really be able to understand how it works. From here the concept of chemical bond energy is linked to the thermodynamic calculations of enthalpy on the calorimeter output.

Lab Manual Of Thermodynamics

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Lab Manual Of Thermodynamics:

Designing and Writing the Thermodynamics Lab Manual Carol A. Reed,1988 Laboratory Manual University of Windsor. Dept. of Physics,196? **Thermodynamics Laboratory Manual** Hans H. VanderMeyden,1974 **A Laboratory Manual of Organic Chemistry for Beginners** Arnold Frederick Holleman,1913 **Laboratory Manual for Principles of General Chemistry** Jo Allan Beran,2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures *A Laboratory Manual of Inorganic Chemistry* John Bernard Ekeley,1912 **The United States Catalog** ,1925 *Catalog of Course of Instruction at the United States Naval Academy* United States Naval Academy,1953 **Laboratory Manual for Thermodynamics** Regina Fuchs-Godec,Urban Bren,2019 *Power and Power Transmission* Eugene Wycliffe Kerr,1914 Outlines of Human Embryology George Reese Satterlee,1914 **Course of Instruction at the United States Naval Academy** United States Naval Academy,1953 *Harmonic Functions* William Elwood Byerly,1906 The Cumulative Book Index ,1909 A world list of books in the English language **Propellers** Cecil Hobart Peabody,1912 Experimental Engineering and Manual for Testing Rolla Clinton Carpenter,Herman Diederichs,1913 *Elements of Water Bacteriology* Samuel Cate Prescott,Charles-Edward Amory Winslow,1913 **The Elements of Specification Writing** Richard Shelton Kirby,1913 **Logging** Ralph Clement Bryant,1913 Sewerage Amory Prescott Folwell,1912

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