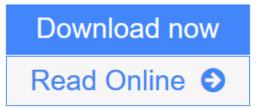


Chemistry

Boundless



<u>Click here</u> if your download doesn"t start automatically

Chemistry

Boundless

Chemistry Boundless

The Boundless Chemistry textbook is a college-level, introductory textbook that covers the exciting subject of Chemistry, a discipline foundational to many areas of scientific study. Boundless works with subject matter experts to select the best open educational resources available on the web, review the content for quality, and create introductory, college-level textbooks designed to meet the study needs of university students.

This textbook covers:

Chemistry -- Overview of Chemistry, Classification of Matter, Physical and Chemical Properties of Matter, Units of Measurement, Measurement Uncertainty, Dimensional Analysis

Atoms, Molecules, and Ions -- History of Atomic Structure, Discoveries Leading to Nuclear Atom Model, The Structure of the Atom, The Periodic Table, Types of Chemical Bonds, Chemical Formulas, Naming Compounds, Organic Compounds

Mass Relationships and Chemical Equations -- Atomic Mass, Molar Mass, Compound Composition, Experimental Data and Empirical Formulas, Reaction Stoichiometry

Aqueous Reactions -- Types of Aqueous Solutions, Precipitation Reactions, Acid-Base Reactions, Oxidation-Reduction Reactions, Solution Concentration

Gases -- Properties of Gases, Gas Laws, The Ideal Gas Law, Gas Stoichiometry, Partial Pressure, Kinetic Molecular Theory, Deviation of Gas from Ideal Behavior

Thermochemistry -- Energy, Thermodynamics, Enthalpy, Calorimetry, Standard Enthalpy of Formation and Reaction, Energy Use and the Environment

Quantum Theory -- The Nature of Light, Bohr's Theory, Quantum Mechanical Description of the Atomic Orbital, Orbital Shapes

Periodic Properties -- The History of the Periodic Table, Electron Configuration, Periodic Trends, Variation in Chemical Properties

Basic Concepts of Chemical Bonding -- Lewis Dot Symbols and Lewis Structures, The Ionic Bond, The Covalent Bond, Electronegativity, Formal Charge and Resonance, Exceptions to the Octet Rule, Bond Energy and Enthalpy

Advanced Concepts of Chemical Bonding -- VESPR Model, Molecular Geometry, Molecular Shape and Polarity, Valence Bond Theory, Molecular Orbital Theory

Liquids and Solids -- Kinetic Molecular Theory of Liquids and Solids, Intermolecular Forces, Liquid Properties, Solid Properties, Types of Crystals, Crystals and Band Theory, Amorphous Solids, Phase Changes, Phase Diagrams

Solutions -- Properties of Solutions, Concentration Units, Factors Affecting Solubility, Colligative Properties of Nonelectrolyte Solutions, Colligative Properties of Electrolyte Solutions, Colloids

Chemical Kinetics -- Reaction Rates, The Rate Law: Concentration and Time, Activation Energy and Temperature Dependence, Reaction Mechanisms, Catalysis

Chemical Equilibrium -- Equilibrium, Writing Equilibrium Constant Expressions, Calculating the Equilibrium Constant, Factors that Affect Chemical Equilibrium

Acids and Bases -- Acids and Bases, The pH Scale, Strength of Acids, Strength of Bases, Diprotic and Polyprotic Acids, Acid Strength and Molecular Structure, Acid-Base Properties of Salts, Acid-Base Properties of Oxides, Lewis Acids and Bases

Acid-Base Equilibria -- Homogeneous versus Heterogeneous Solution Equilibria, Buffer Solutions, Buffer Effectiveness, Acid-Base Titrations, Solubility Equilibria, Complex Ion Equilibria and Solubility, Qualitative Chemical Analysis

Thermodynamics -- The Laws of Thermodynamics, Entropy, Gibbs Free Energy, Free Energy and Chemical Equilibrium

Electrochemistry -- Oxidation-Reduction Equations, Electrochemical Cells, Standard Reduction Potentials, Cell Potentials, Batteries, Electrolysis, Corrosion

Nuclear Chemistry -- Radioactivity, Nuclear Reactions, Nuclear Transmutation, Nuclear Fission, Nuclear Fusion, Use of Isotopes, Effects of Radiation on Life

Metals -- Occurrence and Properties of Metals, Metallurgic Processes, Band Theory of Electrical Conductivity, Alloys, Metals, Some 3d Transition Metals

Nonmetallic Elements -- Properties of Nonmetals, Hydrogen, Silicates, Carbon, Nitrogen and Phosphorous, Boron, Oxygen, Sulfur, Halogens

Transition Metals -- Properties of Transition Metals, Chemistry of Selected Transition Metals, Coordination Compounds, Bonding in Coordination Compounds: Valence Bond Theory, Bonding in Coordination Compounds: Crystal Field Theory, Reactions and Applications of Coordination Compounds

Organic Chemistry -- Classes of Organic Compounds, Allphatic Hydrocarbons, Alkenes and Alkynes, Aromatic Hydrocarbons, Functional Group Names, Properties, and Reactions

The following chapters are also included:

Polymers

Chemistry and The Real World



Download and Read Free Online Chemistry Boundless

Download and Read Free Online Chemistry Boundless

From reader reviews:

Corine Ramirez:

Throughout other case, little men and women like to read book Chemistry. You can choose the best book if you'd prefer reading a book. Given that we know about how is important some sort of book Chemistry. You can add know-how and of course you can around the world by a book. Absolutely right, due to the fact from book you can learn everything! From your country until finally foreign or abroad you can be known. About simple issue until wonderful thing you could know that. In this era, we can open a book or maybe searching by internet system. It is called e-book. You can utilize it when you feel weary to go to the library. Let's learn.

Melba More:

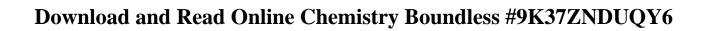
In this 21st centuries, people become competitive in each way. By being competitive right now, people have do something to make these people survives, being in the middle of the crowded place and notice by surrounding. One thing that at times many people have underestimated it for a while is reading. Yeah, by reading a reserve your ability to survive boost then having chance to endure than other is high. To suit your needs who want to start reading some sort of book, we give you that Chemistry book as beginner and daily reading e-book. Why, because this book is more than just a book.

Jean Mora:

Hey guys, do you wishes to finds a new book you just read? May be the book with the subject Chemistry suitable to you? The book was written by well known writer in this era. The actual book untitled Chemistryis the one of several books in which everyone read now. This particular book was inspired many men and women in the world. When you read this e-book you will enter the new dimension that you ever know ahead of. The author explained their plan in the simple way, so all of people can easily to be aware of the core of this guide. This book will give you a lot of information about this world now. In order to see the represented of the world with this book.

Ryan Walker:

That e-book can make you to feel relax. This specific book Chemistry was colourful and of course has pictures around. As we know that book Chemistry has many kinds or category. Start from kids until young adults. For example Naruto or Private eye Conan you can read and feel that you are the character on there. Therefore not at all of book are generally make you bored, any it can make you feel happy, fun and loosen up. Try to choose the best book for yourself and try to like reading this.



Read Chemistry by Boundless for online ebook

Chemistry by Boundless 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 by Boundless books to read online.

Online Chemistry by Boundless ebook PDF download

Chemistry by Boundless Doc

Chemistry by Boundless Mobipocket

Chemistry by Boundless EPub

Chemistry by Boundless Ebook online

Chemistry by Boundless Ebook PDF