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edition of Introductory Chemistry: Concepts and Critical Thinking prepares readers for success in introductory chemistry. Unlike other introductory chemistry texts, all materials -the textbook, student solutions manual, laboratory manual, instructor's manual and test item file - are written by the author and tightly integrated to work together most effectively. Math and problem solving are covered early in the text; Corwin builds reader confidence and ability through innovative

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pedagogy and technology formulated to meet the needs of today's learners. Follow two abolitionists who fought one of the most shockingly persistent evils of the world: human trafficking and sexual exploitation of slaves. Told in alternating chapters from perspectives spanning more than a century apart, read the riveting 19th century first-hand account of Harriet Jacobs and the modern-day eyewitness account of Timothy Ballard. Harriet Jacobs was an African-American,

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born into slavery in North Carolina in 1813. She thwarted the sexual advances of her master for years until she escaped and hid in the attic crawl space of her grandmother's house for seven years before escaping north to freedom. She published an autobiography of her life, *Incidents in the Life of a Slave Girl*, which was one of the first open discussions about sexual abuse endured by slave women. She was an active abolitionist, associated with Frederick Douglass, and, during the Civil War,

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used her celebrity to raise money for black refugees. After the war, she worked to improve the conditions of newly-freed slaves. As a former Special Agent for the Department of Homeland Security who has seen the horrors and carnage of war, Timothy Ballard founded a modern-day "underground railroad" which has rescued hundreds of children from being fully enslaved, abused, or trafficked in third-world countries. His story includes the rescue and his eventual adoption of

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two young siblings--Mia and Marky, who were born in Haiti. Section 2 features the lives of five abolitionists, a mix of heroes from past to present, who call us to action and teach us life lessons based on their own experiences: Harriet Tubman--The "Conductor"; Abraham Lincoln--the "Great Emancipator"; Little Mia--the sister who saved her little brother; Guesno Mardy--the Haitian father who lost his son to slave traders; and Harriet Jacobs--a teacher for us all.



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Theory and experiment in chemistry today provide a wealth of data, but such data have no meaning unless they are correctly interpreted by sound and transparent physical models. Linus Pauling was a grandmaster in the modelling of molecular properties. Indeed, many of his models have served chemistry for decades and that has been his lasting legacy for chemists all over the world. The aim of this book is to put such simple models into the language of modern quantum chemistry, thus providing a deeper justification for many of Pauling's ideas and concepts. However, it should be stressed that many contributions to this work, written

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by some of the world's most prominent theoretical chemists, do not merely follow Pauling's footprints. By taking his example, they made bold leaps forward to overcome the limitations of the old models, thereby opening new scientific vistas. This book is an important contribution to the chemical literature. It is an almost obligatory textbook for postgraduate students and postdoctoral researchers in physical chemistry, chemical physics and advanced physical organic chemistry.

The American Crisis is a collection of articles by Thomas Paine, originally published from December 1776 to December 1783, that focus

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on rallying Americans during the worst years of the Revolutionary War. Paine used his deistic beliefs to galvanize the revolutionaries, for example by claiming that the British are trying to assume the powers of God and that God would support the American colonists. These articles were so influential that others began to adopt some of their more stirring phrases, catapulting them into the cultural consciousness; for example, the opening line of the first *Crisis*, which reads “ These are the times that try men ’ s souls. ” This book is part of the Standard Ebooks project, which produces free public domain ebooks.

This comprehensive collection of

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over 300 intriguing investigations-- including demonstrations, labs, and other activities-- uses everyday examples to make chemistry concepts easy to understand. It is part of the two-volume PHYSICAL SCIENCE CURRICULUM LIBRARY, which consists of Hands-On Physics Activities With Real-Life Applications and Hands-On Chemistry Activities With Real-Life Applications.

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*environments has the potential to raise public interest and understanding of chemistry around the world. However, the chemistry community lacks a cohesive, evidence-based guide for designing effective communication activities. This report is organized into two sections. Part A: The Evidence Base for Enhanced Communication summarizes evidence from communications, informal learning, and chemistry education on effective practices to communicate with and engage publics*

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*outside of the classroom;  
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the design of chemistry  
communication activities;  
and identifies key areas for  
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*Chemistry in the Community*

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The demonstrations capture interest, teach, inform, fascinate, amaze, and perhaps, most importantly, involve students in chemistry. Nowhere else will you find books that answer, "How come it happens? . . . Is it safe? . . . What do I do with all the stuff when the demo is over?" Shakhashiri and his collaborators offer 282 chemical demonstrations arranged in 11 chapters. Each demonstration includes seven sections: a brief summary, a materials list, a step-by-step account of procedures to be used, an explanation of the hazards involved, information on how to store or dispose of the chemicals used, a discussion of

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the phenomena displayed and principles illustrated by the demonstration, and a list of references.

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The only standard reference in this exciting new field combines the physical, chemical and material science perspectives in a synergic way. This monograph traces the development of the preparative methods employed to create nanostructures, in addition to the experimental techniques used to characterize them, as well as some of the surprising physical effects. The chapters cover every category of material, from organic to coordination compounds, metals and composites, in zero, one, two and three dimensions. The book



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also reviews structural, chemical, optical, and other physical properties, finishing with a look at the future for chiral nanosystems. Students studying chemistry often struggle with the mole. Counting Moles provides an effective aid to learning by giving clear and confident presentation of the essentials of the mole concept needed by those starting chemistry courses. This user-friendly self-teach e-book is split into six chapters which sequentially introduce the 'mole calculating frame' to help solve problems. Over 200 fully worked examples are given along with several hundred questions. The mole concept is applied to topics such as

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relative atomic mass and relative formula mass, percentage composition, empirical and molecular formula. The book also covers concentration, its units, volumetric analysis and the relationship between volume, mass and moles of gases. Counting Moles culminates in you taking a Mole Driving Test. On passing this test, you are issued with a Counting Moles Driving License that will give you all the confidence required to correctly answer all mole calculations.

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experiments for AP, IB, and college  
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Would life be better without

alcohol? It's the nagging

question more and more of us

are finding harder to ignore,

whether we have a "problem"

with alcohol or not. After all, we

yoga. We green juice. We

meditate. We self-care. And yet,

come the end of a long work day,

the start of a weekend, an

awkward social situation, we

drink. One glass of wine turns

into two turns into a bottle. In the

face of how we care for

ourselves otherwise, it's hard to

avoid how alcohol really makes

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us feel... terrible. How different would our lives be if we stopped drinking on autopilot? If we stopped drinking altogether? Really different, it turns out. Really better. Frank, funny, and always judgment free, *Sober Curious* is a bold guide to choosing to live hangover-free, from Ruby Warrington, one of the leading voices of the new sobriety movement. Drawing on research, expert interviews, and personal narrative, *Sober Curious* is a radical take down of the myths that keep so many of us drinking. Inspiring, timely, and blame free, *Sober Curious* is both conversation starter and handbook—essential reading that

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empowers readers to transform their relationship with alcohol, so we can lead our most fulfilling lives.

Follows the philosophy and format of the first volume.

Contains 112 demonstrations appropriate for any introductory chemical program. Offers clear, concise text that details each demonstration. Explains how to do it, what the reactions are, and how to prepare materials and solutions. Provides a cross listing of demonstrations and chemical topics, thus allowing you to quickly find the right demonstration to fit a specific topic. Will benefit both student and teacher.

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Carbohydrates, proteins and lipids are all investigated and explored.

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who are considering making the transition from studying biology at school to university. This is a concise, stimulating introduction to the fundamental biomolecules in cells and organisms, and the exciting ways biochemistry could be used to solve global problems, both now and in the future.

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The Blissful Sleep, Greater Focus,  
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An Author, Title, and Illustrator  
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