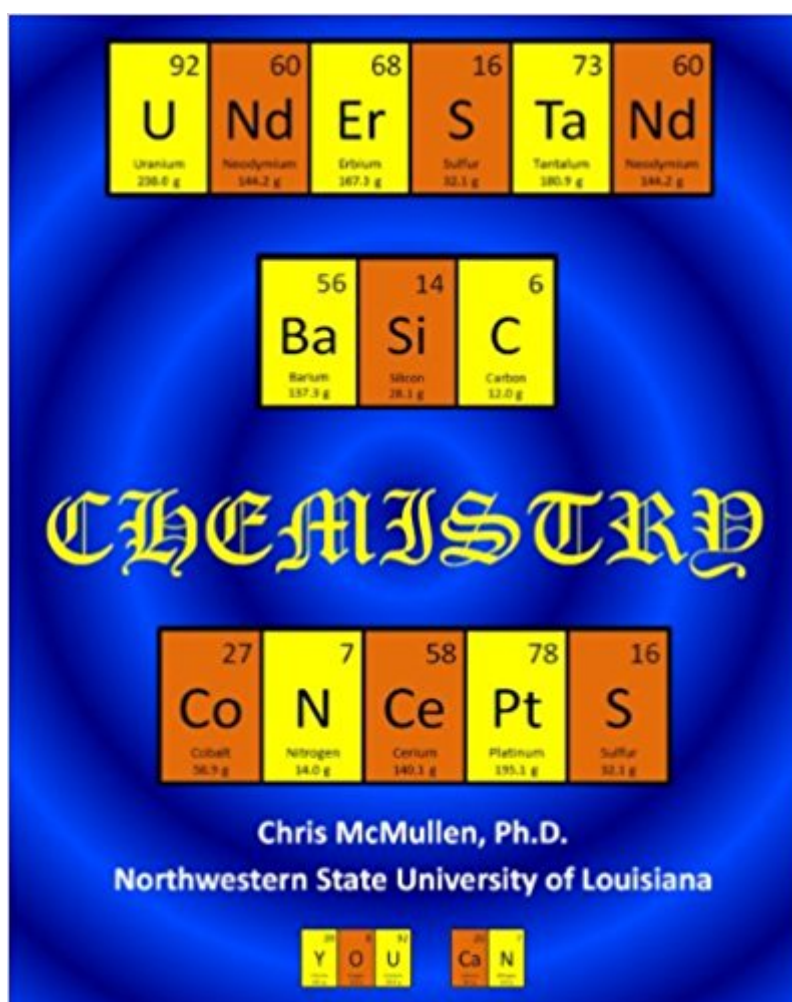


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Understand Basic Chemistry Concepts: The Periodic Table, Chemical Bonds, Naming Compounds, Balancing Equations, And More





Synopsis

UPDATE: The eBook edition was updated on February 15, 2013 and the paperback editions were updated on February 8, 2013. AUTHOR: Chris McMullen holds a Ph.D. in physics and teaches physics, astronomy, and physical science (including the concepts of chemistry) at Northwestern State University of Louisiana. He is highly regarded for his ability to explain science concepts clearly and to get students interested in learning about science. OVERVIEW: This eBook focuses on fundamental chemistry concepts, such as understanding the periodic table of the elements and how chemical bonds are formed. No prior knowledge of chemistry is assumed. The mathematical component involves only basic arithmetic. The content is much more conceptual than mathematical. AUDIENCE: This eBook is geared toward helping anyone - student or not - to understand the main ideas of chemistry. Both students and non-students may find it helpful to be able to focus on understanding the main concepts without the constant emphasis on computations that is generally found in chemistry lectures and textbooks. CONTENTS: (1) Understanding the organization of the periodic table, including trends and patterns. (2) Understanding ionic and covalent bonds and how they are formed, including the structure of valence electrons. (3) A set of rules to follow to speak the language of chemistry fluently: How to name compounds when different types of compounds follow different naming schemes. (4) Understanding chemical reactions, including how to balance them and a survey of important reactions. (5) Understanding the three phases of matter: properties of matter, amorphous and crystalline solids, ideal gases, liquids, solutions, and acids/bases. (6) Understanding atomic and nuclear structure and how it relates to chemistry. (7) VERBAL REACTIONS: A brief fun diversion from science for the verbal side of the brain, using symbols from chemistry's periodic table to make word puzzles. ANSWERS: Every chapter includes self-check exercises to offer practice and help the reader check his or her understanding. 100% of the exercises have answers at the back of the book. LENGTH: The paperback edition of this eBook has 176 pages. COPYRIGHT: All rights are reserved by the author. However, teachers who purchase one copy of this book or borrow one copy of this book from a library may reproduce selected pages for the purpose of teaching chemistry concepts to their own students. FORMATS: This book is available in paperback in 5.5" x 8.5" (portable size), 8.5" x 11" (large size, ISBN 978-1479201259), and as an eBook. The details of the figures - including the periodic tables - are most clear in the large size and large print edition (ISBN 978-1479201259). However, the eBook is in color, whereas the paperback editions are in black-and-white.

Book Information

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Customer Reviews

While I agree with the other reviewers that this book is informative and easy to read, it uses a form of the Periodic Table that is no longer used by the IUPAC (the international chemistry people). The author's version contains 8 groups, whereas the currently accepted version has 18. So if you'll need to work with the Periodic Table at some point (like in a chemistry class), you'll either need another table, or you'll need to amend the tables in the book.

This book is helpful in cracking into the language of Chemistry. It explains how chemicals are assemble and named, and what chemical reactions are. It goes on to show how using a little bit of Math and you can make reasonable predictions. The Periodic Table is show as a key to making predictions of the properties of elements and the bonds they make. The book takes a lot of the scariness out of Chemistry, so that the reader can appreciate how Chemistry can explain Science and Nature.

I haven't studied Chemistry since high school (late 60's). Only wish I had this book then!

Being out of school for many decades , between what I forgot and didn't know in the first place , I was at a loss in helping my daughter with chemistry . After reading the first 55 pages , I was caught up enough to be able to be a substantial help. Very well written book.

great chemistry book for kids

A great discussion of the periodic table. First time I feel like I am beginning to understand how it works.

Good basic overview of the basic chemistry principles presented. Easily understood, simply stated concepts lay the foundation for more advanced understanding.

excellent book

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