

CHEMISTRY ADVANCED STUDY

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FUNDAMENTAL CONCEPTS

Math

- Properties of exponents
- Properties of logarithms
 - $\log_b (M^p N) = \log_b (M) + \log_b (N)$
 - $\log_b (MN) = \log_b (M) + \log_b (N)$
 - $\log_b (M^p) = p \log_b (M)$
- Graphing slope intercepts
 - $y = mx + b$
 - b is the y-intercept, m is the slope
- Quadratic formula
 - $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
 - Ex. $x^2 + 4x - 21$
 - $x = \frac{-4 \pm \sqrt{16 - 4(1)(-21)}}{2}$
 - $x = -2 \pm 5$
 - $x = 3$ or $x = -7$

Science

- Scientific notation
- Dimensional analysis
- Significant figures

Physics and Biology

- Scientific method
- Coulomb's law: electric force between like or opposite charges; dependence on separation distance and charge magnitude

ELEMENTS AND ATOMS

Protons: define the element (atomic number), positive

Electrons: define the charge (bonds and polarity), negative

Neutrons: define isotopes, neutral

ATOMIC MASS AND WEIGHT

Atomic Mass: Carbon-12 (exactly 12 atomic mass unit)

Atomic Weight

- weighted average of atomic masses of element
- (atomic mass · neutrons) + (atomic mass · neutrons)

MOLE A.K.A. AVOGADRO'S NUMBER

$$= 6.02 \cdot 10^{23}$$

In Terms of Carbon

1 mole of ^{12}C atoms in 12g of Carbon

$6.02 \cdot 10^{23} = ^{12}\text{C}$ atoms in 12g of Carbon

Gram to AMU

1 gram = 1 mole of atomic mass units

1 gram = $6.02 \cdot 10^{23}$ amu

1 mol ^{27}Al = 27g

2 mol ^{28}Si = 56g

4 mol ^{16}O = 64g

Holt Chemistry Study Guide Atoms And Moles

Russell C. Hollingsworth



Holt Chemistry Study Guide Atoms And Moles:

Holt Chemistry Holt Rinehart & Winston,2003-01-24 *Holt Chemistry* Ralph Thomas Myers,2004 Physical Metallurgy Gregory N. Haidemenopoulos,2018-02-07 Physical metallurgy is one of the main fields of metallurgical science dealing with the development of the microstructure of metals in order to achieve desirable properties required in technological applications Physical Metallurgy Principles and Design focuses on the processing structure properties triangle as it applies to metals and alloys It introduces the fundamental principles of physical metallurgy and the design methodologies for alloys and processing The first part of the book discusses the structure and change of structure through phase transformations The latter part of the books deals with plastic deformation strengthening mechanisms and mechanical properties as they relate to structure The book also includes a chapter on physical metallurgy of steels and concludes by discussing the computational tools involving computational thermodynamics and kinetics to perform alloy and process design

Modern Chemistry Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2001 Library of Congress Catalog: Motion Pictures and Filmstrips Library of Congress,1968 *Study Guide to Accompany Biology* by Karen Arms and Pamela S. Camp Russell C. Hollingsworth,1979 Science Spectrum Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 Space Science ,1969 *Scientific, Medical, and Technical Books Published in the United States of America, 1930-1944* Reginald Robert Hawkins,1946 Scientific, Medical, and Technical Books Published in the United States of America Reginald Robert Hawkins,1950

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