

Section 12.2

Chemical Calculations

OBJECTIVES:

- Construct "mole ratios" from balanced chemical equations, and apply these ratios in mole-mole stoichiometric calculations.
- Calculate stoichiometric quantities from balanced chemical equations using units of moles, mass, representative particles, and volumes of gases at STP.

Mole to Mole conversions



- each time we use 2 moles of Al_2O_3 we will also make 3 moles of O_2

These are the two possible conversion factors to use in the solution of the problem.

Mole to Mole conversions

- How many moles of O_2 are produced when 3.34 moles of Al_2O_3 decompose?



If you know the amount of ANY chemical in the reaction, you can find the amount of ALL the other chemicals!

Practice:



- If 3.84 moles of C_2H_2 are burned, how many moles of O_2 are needed?

- How many moles of C_2H_2 are needed to produce 8.95 mole of H_2O ?

Chemistry Chapter 12 Stoichiometry Notes

C. Remigius Fresenius



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Lecture-notes on Theoretical Chemistry Ferdinand Gerhard Wiechmann,1893 Teaching Science for Understanding James Joseph Gallagher,2007 Offers middle and high school science teachers practical advice on how they can teach their students key concepts while building their understanding of the subject through various levels of learning activities Instructor's Resource Guide to Accompany Chemistry & Chemical Reactivity John C. Kotz,1996 **Chemistry of the Elements** N. N. Greenwood,A. Earnshaw,2012-12-02 When this innovative textbook first appeared in 1984 it rapidly became a great success throughout the world and has already been translated into several European and Asian languages Now the authors have completely revised and updated the text including more than 2000 new literature references to work published since the first edition No page has been left unaltered but the novel features which proved so attractive have been retained The book presents a balanced coherent and comprehensive account of the chemistry of the elements for both undergraduate and postgraduate students This crucial central area of chemistry is full of ingenious experiments intriguing compounds and exciting new discoveries The authors specifically avoid the term inorganic chemistry since this evokes an outmoded view of chemistry which is no longer appropriate in the final decade of the 20th century Accordingly the book covers not only the inorganic chemistry of the elements but also analytical theoretical industrial organometallic bio inorganic and other cognate areas of chemistry The authors have broken with recent tradition in the teaching of their subject and adopted a new and highly successful approach based on descriptive chemistry The chemistry of the elements is still discussed within the context of an underlying theoretical framework giving cohesion and structure to the text but at all times the chemical facts are emphasized Students are invited to enter the exciting world of chemical phenomena with a sound knowledge and understanding of the subject to approach experimentation with an open mind and to assess observations reliably This is a book that students will not only value during their formal education but will keep and refer to throughout their careers as chemists Completely revised and updated Unique approach to the subject More comprehensive than competing titles **Addison-Wesley Chemistry** ,1990 **Energy Research Abstracts** ,1991 **A System of Instruction in Quantitative Chemical Analysis** C. Remigius Fresenius,1893 *Manual of Qualitative Chemical Analysis* C. Remigius Fresenius,1891 **General Catalog** Georgia Institute of Technology,1929 *The Students' Guide in Quantitative Analysis* Henry Carrington Bolton,1894 *High School Chemistry Teachers Magazine* ,1967 Chemistry Charles E. Mortimer,1983 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine Chemistry with Inorganic Qualitative Analysis Therald Moeller,1980 *Student Study Guide to Accompany Petrucci's General Chemistry* Robert K. Wismer,1985 *Journal of Industrial and Engineering Chemistry* ,1921 **The Journal of Industrial and Engineering Chemistry** ,1921 **Industrial & Engineering Chemistry** ,1926 **General Chemistry** Darrell D. Ebbing,1999 **Chemistry** Edward

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web erfahren sie wie sie mit multipler sklerose ms aktiv bleiben und ihre bewegungsfreiheit erhalten können entdecken sie die vielfältigen möglichkeiten von msundichbewegt auf msundich de und lassen sie sich von inspirierenden geschichten Übungen und tipps für ein aktives leben mit ms begeistern

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web lange zeit hieß es ms und sport würden sich nicht vertragen diese sichtweise gilt mittlerweile als widerlegt heute ist die gesundheitsfördernde wirkung von sport auch bei multipler sklerose unumstritten bewegungsübungen können bei der behandlung von ms sogar wichtige therapiebausteine sein