

Chapter - 1

Chemical Reactions and Equations

Chemical Reaction: • Chemical reaction is a process in which new substances with different properties are formed.

- Atoms of one element don't change into another element.
- Only rearrangement of atoms takes place in a chemical reaction.

Examples 1. Hydrogen + Oxygen \rightarrow water

2. Iron + Oxygen \rightarrow rust

3. Potassium and chlorine gas \rightarrow chloride

Physical Change: • No new substance is formed.

- It is a temporary change.
- No change in the composition of the substance takes place.
- It is easily reversible.
- Heat or light may or may not be given out or absorbed.

Chemical Change: • A new substance is formed.

- It is a permanent change.
- The composition of the new substance change greatly.
- The change may be reversible or irreversible.
- Heat or light or both are generally given out or absorbed.

Law of Conservation of mass

Matter can neither be created nor destroyed in a chemical reaction. This means that total mass of all reactants must

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Notes on books Longmans, Green and co,1903 *Elemental* Tim James,2019-03-26 If you want to understand how our world works the periodic table holds the answers When the seventh row of the periodic table of elements was completed in June 2016 with the addition of four final elements nihonium moscovium tennessine and oganesson we at last could identify all the ingredients necessary to construct our world In *Elemental* chemist and science educator Tim James provides an informative entertaining and quirkily illustrated guide to the table that shows clearly how this abstract and seemingly jumbled graphic is relevant to our day to day lives James tells the story of the periodic table from its ancient Greek roots when you could count the number of elements humans were aware of on one hand to the modern alchemists of the twentieth and twenty first centuries who have used nuclear chemistry and physics to generate new elements and complete the periodic table In addition to this he answers questions such as What is the chemical symbol for a human What would happen if all of the elements were mixed together Which liquid can teleport through walls Why is the medieval dream of transmuting lead into gold now a reality Whether you re studying the periodic table for the first time or are simply interested in the fundamental building blocks of the universe from the core of the sun to the networks in your brain *Elemental* is the perfect guide *The Journal of Education* ,1902 *The Man in the Monkeynut Coat* Kersten T. Hall,2014 Tells the story of the English physicist and molecular biologist William T Astbury and how his work forms a previously untold chapter in the story of the discovery of the structure of DNA **Technology Quarterly and Proceedings of the Society of Arts** ,1906 Vol 8 14 include Review of American chemical research edited by Arthur A Noyes **The First Miracle Drugs** John E. Lesch,2007 In the decade from 1935 1945 while the Second World War raged in Europe a new class of medicines capable of controlling bacterial infections launched a therapeutic revolution that continues today The new medicines were not penicillin and antibiotics but sulfonamides or sulfa drugs The sulfa drugs preceded penicillin by almost a decade and during World War II they carried the main therapeutic burden in both military and civilian medicine Their success stimulated a rapid expansion of research and production in the international pharmaceutical industry raised expectations of medicine and accelerated the appearance of new and powerful medicines based on research The latter development created new regulatory dilemmas and unanticipated therapeutic problems The sulfa drugs also proved extraordinarily fruitful as starting points for new drugs or classes of drugs both for bacterial infections and for a number of important non infectious diseases This book examines this breakthrough in medicine pharmacy and science in three parts Part I shows that an industrial research setting was crucial to the success of the revolution in therapeutics that emerged from medicinal chemistry Part II shows how national differences shaped the reception of the sulfa drugs in Germany France Britain and the United States The author uses press coverage of the day to explore popular perceptions of the dramatic changes taking place in medicine Part III documents the impact of the sulfa drugs on the American effort in World War II It also shows how researchers came to an understanding of how the sulfa

drugs worked adding a new theoretical dimension to the science of pharmacology and at the same time providing a basis for the discovery of new medicinal drugs in the 1940s 1950s and 1960s A concluding chapter summarizes the transforming impact of the sulfa drugs on twentieth century medicine tracing the therapeutic revolution from the initial breakthrough in the 1930s to the current search for effective treatments for AIDS and the new horizons opened up by the human genome project and stem cell research

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