

Why Chemical Reactions Happen

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By tackling the most central ideas in chemistry, "Why Chemical Reactions Happen" provides the reader with all the tools and concepts needed to think like a chemist. The text takes a unified approach to the subject, aiming to help the reader develop a real overview of chemical processes, by avoiding the traditional divisions of physical, inorganic and organic chemistry.

~~Why Chemical Reactions Happen: Amazon.co.uk: Keeler, James ...~~

Why Chemical Reactions Happen. By James Keeler and Peter Wothers Review by Rachel (Chemistry) After a couple of university open days where everyone was told to [read around the subject], I was really struggling to find a book which built on what I knew from AS levels.

~~Why Chemical Reactions Happen - University College Oxford~~

Chemical reactions occur when molecules interact and change. Bonds between atoms in molecules break and are reformed in new ways. Chemical reactions are at the heart of literally every biological process in the universe. Stars form because of chemical reactions; our sun ignited because of chemical reactions in its core.

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~~8 Reasons Why Chemical Reactions Are Important~~

Taking the macroscopic and view that chemistry involves the transformation of bulk substance, we can confidently state that a chemical process (reaction or interaction) can feasibly occur when the Gibbs free energy of the system decreases, ie. when ΔG is negative or less than zero, $\Delta G < 0.00$. The Gibbs function is: $\Delta G = \Delta H - T \Delta S$

~~Why? | Chemical Reactions | Chemogenesis~~

As an interesting analysis of the concepts behind chemical reactions, I can say that its presence there is not unwarranted. Why Chemical Reactions Happen covers ideas from entropy to atomic and molecular orbitals to kinetics and energetics.

~~Why Chemical Reactions Happen by James Keeler~~

Why Chemical Reactions Happen. James Keeler and Peter Wothers. Description. By tackling the most central ideas in chemistry, Why Chemical Reactions Happen provides the reader with all the tools and concepts needed to think like a chemist. The text takes a unified approach to the subject, aiming to help the reader develop a real overview of chemical processes, by avoiding the traditional divisions of physical, inorganic and organic chemistry.

~~Why Chemical Reactions Happen - James Keeler; Peter ...~~

Chemical reactions take place when the atoms of two or more substances exchange or share electrons. The reaction produces atoms and molecules with the electrons arranged differently. The changed configuration of the atoms involves a change in energy, meaning the chemical reaction either gives off or absorbs light, heat or electricity.

~~What Happens to Atoms During a Chemical Reaction? | Sciencing~~

Collision Theory: How Chemical Reactions Occur. In order for a chemical reaction to take place, the reactants must collide. The collision between the molecules in a chemical reaction provides the kinetic energy needed to break the necessary bonds so that new bonds can be formed.

~~Collision Theory: How Chemical Reactions Occur - dummies~~

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This is why the properties of a compound are different from the elements it contains, and why you can only separate its elements using another chemical reaction. Separation methods like filtration ...

~~Chemical reactions - Types of reaction - KS3 Chemistry ...~~

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~~Why Chemical Reactions Happen by James Keeler, Peter ...~~

By concentrating on a limited number of model reactions, this book presents chemistry as a cohesive whole by tying together the fundamentals of thermodynamics, chemical kinetics, and quantum chemistry, mainly through the use of molecular orbital interpretations.

~~Why Chemical Reactions Happen (Keeler, James; Wothers ...~~

The best part of the book is that it really answers the question of the title: Why DO chemical reactions happen? It does so by introducing and explaining the structure of the atom and of molecules (refreshingly using Molecular Orbital Theory), and applying that knowledge to bonding changes in a reaction.

~~Why Chemical Reactions Happen: Keeler, James, Wothers ...~~

Chemical reactions occur when chemical bonds between atoms are formed or broken. The substances that go into a chemical reaction are called the reactants, and the substances produced at the end of the reaction are known as the products.

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