



CHEMICAL BONDS



IONIC, COVALENT, & METALLIC

FORMS OF CHEMICAL BONDS
Bonding: combination of atoms

Atoms combine to form molecules or compounds by sharing or transferring electrons. This process is called bonding. The resulting molecule or compound has properties different from the individual atoms.

Types of Bonds:

- Covalent Bond:** Formed by sharing of electrons between two atoms. Example: H_2 , H_2O , CH_4 .
- Ionic Bond:** Formed by the transfer of electrons from one atom to another. Example: $NaCl$, KBr .
- Metallic Bond:** Formed by the delocalization of electrons in a metal lattice. Example: Fe , Cu , Al .

Covalent, Ionic, and Metallic Bonds

Covalent bonds are formed by the sharing of electrons between two atoms. This results in a molecule with properties different from the individual atoms. Examples include H_2O , CH_4 , and CO_2 .

Ionic bonds are formed by the transfer of electrons from one atom to another. This results in a crystal lattice with properties different from the individual atoms. Examples include $NaCl$, KBr , and CaF_2 .

Metallic bonds are formed by the delocalization of electrons in a metal lattice. This results in a solid with properties different from the individual atoms. Examples include Fe , Cu , and Al .

Science Real

A simplified periodic table of elements, color-coded by groups. It shows the layout of the periodic table with elements represented by small colored squares.

IONIC BONDING

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Science Real

A diagram showing the formation of an ionic bond. It depicts a sodium atom (Na) with one valence electron and a chlorine atom (Cl) with seven valence electrons. An arrow indicates the transfer of the sodium electron to the chlorine atom, resulting in a sodium ion (Na+) and a chloride ion (Cl-). The ions are then shown attracted to each other by electrostatic forces.

GUIDED READING ACTIVITY

Chapter 5 Guided Reading Answer Key Ionic Bonds

Michael Brown



Chapter 5 Guided Reading Answer Key Ionic Bonds:

Reviewing **Chapter 5 Guided Reading Answer Key Ionic Bonds**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Chapter 5 Guided Reading Answer Key Ionic Bonds**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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