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compounds as well as the energies and other properties a chemical bond is the association of atoms or ions to form molecules crystals and other structures the bond may result from the electrostatic force between oppositely charged ions as in ionic bonds or through the sharing of electrons as in covalent bonds or some combination of these effects a chemical bond is an interaction that holds molecules and compounds together by the sharing or exchanging of electrons when an atom comes into proximity to another atom and its valence outer electrons are attracted to the positive nuclear charge of the other atom a bond between the two atoms can be formed atomic structure and bonding to understand bond formation it is necessary to know the general features of the electronic structure of atoms that is the arrangement of electrons around the central nucleus for background information about this subject and further details see atom atomic structure rutherford atomic model ionic compound ion pair bond ionic crystal ionic bond type of linkage formed from the electrostatic attraction between oppositely charged ions in a chemical compound such a bond forms when the valence outermost electrons of one atom are transferred permanently to another atom human bonding is the process of development of a close interpersonal relationship between two or more people it most commonly takes place between family members or friends 1 but can also develop among groups such as sporting teams and whenever people spend time together ccea bonding ccea bonding atoms and ions bond with each other in three main ways ionic bonds covalent bonds and metallic bonds different types of bonds form different types of chemical bonding refers to the formation of a chemical bond between two or more atoms molecules or ions to give rise to a chemical compound these chemical bonds are what keep the atoms together in the resulting compound download complete chapter notes of chemical bonding and molecular structure download now the key difference between an ionic and covalent bond is that one atom essentially donates an electron to another atom in an ionic bond while electrons are shared between atoms in a covalent bond ionic bonds form between a metal and a nonmetal covalent bonds form between two nonmetals metallic bonds form between two

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