4.2 Covalent bonding

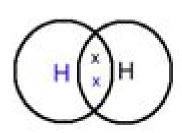
Basic theory

Covalent bonds are formed when electrons from different atoms are shared so that each atom attain a noble gas electron configuration – known as **the octet rule**. The bond is due to the electrostatic attraction between shared pairs of electrons and the positively charged nuclei on either side of the electrons.

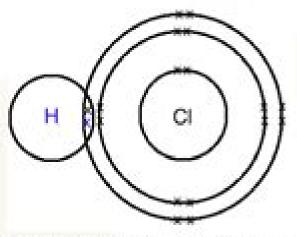
Single covalent bond

Formed when one pair of electrons is shared between two atoms.

Examples include hydrogen and hydrogen chloride.



hydrogen molecule, H2



hydrogen chloride molecule, HCl

Covalent Bonding Chem Think

James O. Glanville

Covalent Bonding Chem Think:

Visualizing Everyday Chemistry Douglas P. Heller, Carl H. Snyder, 2015-01-20 Visualizing Everyday Chemistry Binder Ready Version is for a one semester course dedicated to introducing chemistry to non science students It shows what chemistry is and what it does by integrating words with powerful and compelling visuals and learning aids With this approach students not only learn the basic principles of chemistry but see how chemistry impacts their lives and society The goal of Visualizing Everyday Chemistry Binder Ready Version is to show students that chemistry is important and relevant not because we say it is but because they see it is This text is an unbound binder ready version Misconceptions Keith Taber, 2002 Part one includes information on some of the key alternative conceptions that have been uncovered by research and general ideas for helping students with the development of scientific conceptions Core Precepts in Supramolecular Method and Nanochemistry Philip McShane, 2019-10-12 The book is an invitation to a chemical revolution one that lifts us towards the positive Anthropocene leaving behind the sick killing and dying days of the negative Anthropocene so neatly identified in 1940 by Charlie Chaplin at the conclusion of The Great Dictator Greed has poisoned men's souls has barricaded the world with hate has goose stepped us into misery and bloodshed We have developed speed but we have shut ourselves in Machinery that gives abundance has left us in want For those familiar with Lonergan s book Method in Theology The Future aims at a new creative reading The author's central message is to focus on theology ASAFACT to come to our senses and ASsemble our AFfirmed ACTing to change history Assembly includes self assembly an assembly of a piece of a lonely cosmic chemistry a supermolecule whose reality in history is weaved round a complex W **Introduction to Coordination Chemistry** Geoffrey A. Lawrance, 2013-03-15 At the heart of coordination enzyme chemistry lies the coordinate bond in its simplest sense arising from donation of a pair of electrons from a donor atom to an empty orbital on a central metalloid or metal Metals overwhelmingly exist as their cations but these are rarely met naked they are clothed in an array of other atoms molecules or ions that involve coordinate covalent bonds hence the name coordination compounds These metal ion complexes are ubiquitous in nature and are central to an array of natural and synthetic reactions Written in a highly readable descriptive and accessible style Introduction to Coordination Chemistry describes properties of coordination compounds such as colour magnetism and reactivity as well as the logic in their assembly and nomenclature It is illustrated with many examples of the importance of coordination chemistry in real life and includes extensive references and a bibliography Introduction to Coordination Chemistry is a comprehensive and insightful discussion of one of the primary fields of study in Inorganic Chemistry for both undergraduate and non specialist readers

Organic Chemistry Ralph J. Fessenden, Joan S. Fessenden, 1986 Chemistry 'O' Level Rex M. Heyworth, 2007

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