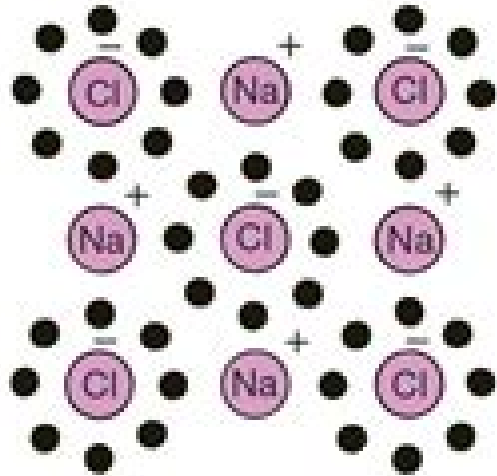
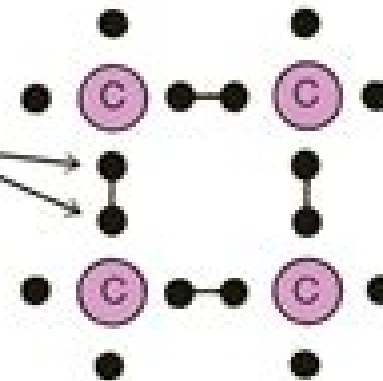


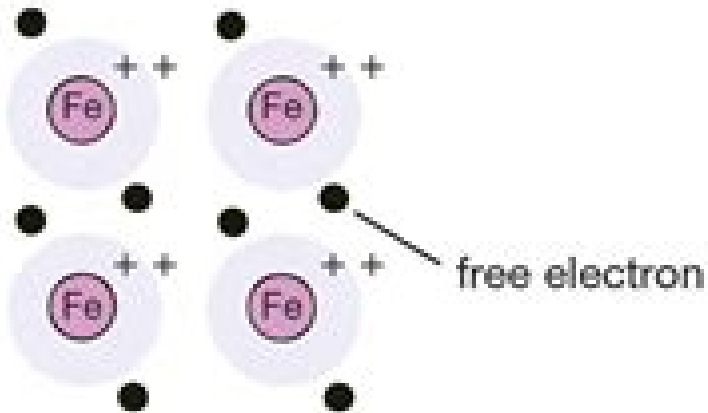


ionic bonding
electron transferred from Na to Cl

shared electrons

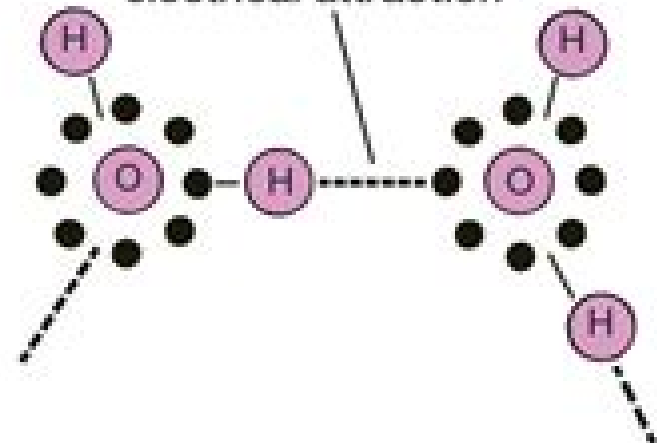


covalent bonding
atoms share electrons



metallic bonding
ions surrounded by free electrons

electrical attraction



molecular bonding
weak electrical attraction binds molecules

Electronic Structure And Chemical Bonding

Walter Ashley Harrison



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Electronic Structure and the Properties of Solids Walter A. Harrison, 2012-03-08 This text offers basic understanding of the electronic structure of covalent and ionic solids, simple metals, transition metals and their compounds; also explains how to calculate dielectric, conducting, bonding properties.

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philosophy adopted in the series **Electronic Structure and the Properties of Solids** Walter Ashley Harrison, 1980-01 This text offers basic understanding of the electronic structure of covalent and ionic solids simple metals transition metals and their compounds also explains how to calculate dielectric conducting bonding properties *Modern Electronic Structure Theory and Applications in Organic Chemistry* Ernest R. Davidson, 1997 This volume focuses on the use of quantum theory to understand and explain experiments in organic chemistry High level ab initio calculations when properly performed are useful in making quantitative distinctions between various possible interpretations of structures reactions and spectra Chemical reasoning based on simpler quantum models is however essential to enumerating the likely possibilities The simpler models also often suggest the type of wave function likely to be involved in ground and excited states at various points along reaction paths This preliminary understanding is needed in order to select the appropriate higher level approach since most higher level models are designed to describe improvements to some reasonable zeroth order wave function Consequently most of the chapters in this volume begin with experimental facts and model functions and then progress to higher level theory only when quantitative results are required In the first chapter Zimmerman discusses a wide variety of thermal and photochemical reactions of organic molecules Gronert discusses the use of ab initio calculations and experimental facts in deciphering the mechanism of elimination reactions in the gas phase Bettinger et al focus on carbene structures and reactions with comparison of the triplet and singlet states Next Hrovat and Borden discuss more general molecules with competitive triplet and singlet contenders for the ground state structure Cave explains the difficulties and considerations involved with many of the methods and illustrates the difficulties by comparing with the UV spectra of short polyenes Jordan et al discuss long range electron transfer using model compounds and model Hamiltonians Finally Hiberty discusses the breathing orbital valence bond model as a different approach to introducing the crucial correlation that is known to be important in organic reactions **Chemical Bonds** Harry B. Gray, 1994-12-05 This profusely illustrated book by a world renowned chemist and award winning chemistry teacher provides science students with an introduction to atomic and molecular structure and bonding This is a reprint of a book first published by Benjamin Cummings 1973

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