






8.2 The Nature of Covalent Bonding > Key Concepts

-  In covalent bonds, e⁻ sharing occurs so that atoms attain the configurations of noble gases.
-  In a coordinate covalent bond, the shared e⁻'s come from a single atom.
-  The octet rule is not satisfied in molecules with an odd # of e⁻ & in molecules where an atom has less, or more, than a complete octet of valence e⁻.
-  A large bond dissociation energy corresponds to a strong covalent bond.
-  In ozone, the bonding of oxygen atoms is a hybrid of the extremes represented by the resonance forms.

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Harold V. Thurman, Alan P. Trujillo



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Für Naturforschung ,2007 *Introductory Oceanography* Harold V. Thurman,Alan P. Trujillo,2004 The 10th edition of this popular book continues to provide an excellent foundation in science by examining the vast body of oceanic knowledge Spanning the disciplines of geology chemistry physics and biology it allows readers to have a fundamental understanding of how oceans work Interwoven within the book are hundreds of photographs illustrations real world examples and applications that make the material relevant accessible and entertaining Well organized and clearly written this book covers scientific inquiry and gives an historical look at the study of oceanography the origins of life the earth and the oceans plate tectonics marine provinces marine sediments water and seawater air sea interaction ocean circulation waves tides and coastlines biological productivity and the marine habitat marine resources and environmental concerns This book is intended to help readers in their quest to find out more about oceans Because of its comprehensive scope and excellent resource materials it can also serve as an excellent reference work for those involved in oceanography *Heterocycles in Life and Society* Alexander F. Pozharskii,Anatoly T. Soldatenkov,Alan R. Katritzky,2011-06-07 *Heterocycles in Life and Society* is an introduction to the chemistry of heterocyclic compounds focusing on their origin and occurrence in nature biochemical significance and wide range of applications Written in a readable and accessible style the book takes a multidisciplinary approach to this extremely important area of organic chemistry Topics covered include an introduction to the structure and properties of heterocycles the key role of heterocycles in important life processes such as the transfer of hereditary information how enzymes function the storage and transport of bioenergy and photosynthesis applications of heterocycles in medicine agriculture and industry heterocycles in supramolecular chemistry the origin of heterocycles on primordial Earth and how heterocycles can help us solve 21st century challenges For this second edition *Heterocycles in Life and Society* has

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