

# Lewis Model of Electronic Structure

| Methodology  | Example: Expanded octets   |  |
|--|--|--|
| Step 1: Count the number of valence electrons from all the atoms   | For $\text{ICl}_4^-$ , there are 36 valence electrons ( $5 \times 7 + 1$ )   |  |
| Step 2: Draw the skeleton structure. Use a pair of electrons (or multiple pairs of electrons) to form a bond between each pair of atoms that are bound to each other                                       | $\begin{array}{c} \text{Cl} \\   \\ \text{Cl} - \text{I} - \text{Cl} \\   \\ \text{Cl} \end{array}$  |  |
| Step 3: Count the remaining electrons as nonbonding (NB): # valence - # bonding electrons (B) = # nonbonding electrons (NB). Arrange the NB electrons so each atom has 8 electrons around it (octet rule). | $\begin{array}{c} \text{:Cl:} \\   \\ \text{:Cl:} - \text{I} - \text{Cl:} \\   \\ \text{:Cl:} \end{array} + 4e^-$  |  |
| Step 4: Check for octet rule and exceptions to octet rule.   | <p>After satisfying octet rule for each atom, there are 4 electrons remaining. These are placed as NB electrons on the fifth period element, I.</p> $\begin{array}{c} \text{:Cl:} \\   \\ \text{:Cl:} - \text{I} - \text{Cl:} \\   \\ \text{:Cl:} \end{array}$ |  |
| Step 5: Evaluate whether the formal charges (FC) on the atoms are reasonable.  | $\text{FC}_\text{I} = 7 - 8 = -1$ $\text{FC}_\text{Cl} = 7 - 7 = 0$  |  |
| Step 6: Draw resonance structures  | none.  |  |

# Lewis Model Of Electronic Structure Pogil

**M Walker**



## **Lewis Model Of Electronic Structure Pogil:**

## **Lewis Model Of Electronic Structure Pogil** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Lewis Model Of Electronic Structure Pogil**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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