

13.1.1 Valence Bond Method And sp³ Hybridization (Video)

This project was preformed to supply **Libretext Authors** with videos on General Chemistry topics which can be used to enhance their projects. Also, these videos are meant to act as a learning resource for **all General Chemistry students**.

Video Topics

Valence Bond Method: Describes covalent bonding in terms of atomic orbitals. Covalent bonds forms when the orbitals of two atoms overlap and are occupied by a pair of electrons. The shapes of the orbitals come from the wave functions discussed in quantum numbers. Hybridization: The reforming of atomic orbitals into hybrid orbitals. Hybridization results in greater orbital overlap and stronger bonds and explains observed molecular shapes. $s + 3 p \rightarrow 4 sp^3$ orbitals. The term sp^3 shows that the hybrid orbitals are 25% s and 75 % p.

Link to Video

Valence Bond Method & sp³ Hybridization: <https://youtu.be/2hxKLGWQ5EQ>



Attribution

- Prof. Steven Farmer ([Sonoma State University](#))

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