

12.3 Lewis Theory of Bonding (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

Gilbert Lewis in the period 1916-1919 put forth a proposal about chemical bonding. He believed that atoms bond to each other to obtain electron configurations similar to noble gases. The fundamental ideas of Lewis's theory are: 1) Valence electrons play a fundamental role in bonding.

2) Sometimes electrons are transferred to form an ionic bond. 3) Sometimes electrons are shared to form covalent bonds. 4) Electrons are transferred such that each atom acquires a stable electron configuration. This usually is a noble gas configuration on with eight electrons also called an octet.

Lewis structure: A combination of Lewis symbols that represent the transfer or sharing of electrons.

Link to Video

Lewis Theory of Bonding: https://youtu.be/TZ6C5_k-SPs



Attribution

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

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