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Lec.1 chapter1 classification of molecules in to point group ~~Projection operator method: sigma orbitals of boron trifluoride~~ **Projection operator method: sigma molecular orbitals of water (H₂O)** *What is Abstract Algebra? (Modern Algebra)* Chemical Applications of Group Theory: Lecture - 8 *Chemical Applications of Group Theory: Lecture 10* ~~Ch 0 Preface - Chemical Applications of Group Theory - F. Albert Cotton - Relaxing ASMR Audiobook~~ *Chemical Applications of Group Theory: Lecture 16*

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It's for chemists, specifically inorganic ones, who use group theory to analyze ligand chemistry and spectroscopic measurements. It is also useful for those who utilize computational chemistry programs like Gaussian and need to know the basics of orbital and molecular symmetry.

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Applications of Group Theory 16 Therefore, the following table can be obtained: C_{2v} E C_2 $\sigma_v(xz)$ $\sigma_v(yz)$ H_2O 0 0 2 $A_1 + B_2$ The two hydrogen 1s orbitals form two linear combinations, one with A_1 symmetry and the other with B_2 symmetry.

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UNIT 1- Symmetry & Group Theory in Chemistry

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