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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 σ_v (xz) σ_v (yz) Γ H 2 0 0 $2 \equiv A_1 + B_2$ The two hydrogen 1 s 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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