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[Applications of Group Theory 16](#) Therefore, the following table can be obtained:  $C_2 \quad v \quad E \quad C_2 \quad v \quad (xz) \quad ' \quad v \quad (yz) \quad H_2O \quad 0 \quad 0 \quad 2 \quad A_1 + B_2$  The two hydrogen 1 s orbitals form two linear combinations, one with A<sub>1</sub> symmetry and the other with B<sub>2</sub> symmetry.

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