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Symmetry and Spectroscopy deals with the use of group theory in quantum mechanics in relation to problems in molecular spectroscopy. It discusses the use of the molecular symmetry group,

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whose elements consist of permutations of identical nuclei with or without inversion. After reviewing the permutation groups, inversion operation, point

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Molecular symmetry in chemistry describes the symmetry present in molecules and the classification of molecules according to their symmetry. Molecular symmetry is a

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fundamental concept in chemistry, as it can be used to predict or explain many of a molecule's chemical properties, such as its dipole moment and its allowed spectroscopic transitions. To do this it is necessary to classify the

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molecule using the  
irreducible  
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table of the  
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~~Molecular  
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Symmetry and  
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## Symmetry And

### Vibrations 7.1

Bases for molecular vibrations We investigate a

molecule consisting of  $N$  atoms, which has  $3N$  degrees of freedom. Taking the translations (3) and rotations (3 for non-linear, 2 for linear molecules) into account, we obtain  $3N-6$  (5)

# Acces PDF Symmetry And vibrational degrees of freedom for the non-linear (linear) case.

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describes the  
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Symmetry is an  
important factor in



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Nature says: atoms that are symmetry-inequivalent can

absorb at different shifts. atoms that are symmetry-equivalent must absorb at the same shift. To learn about symmetry, take a model of pentane and do the following: make

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sure the model is  
twisted into the  
most symmetric  
shape possible: a  
nice "W".

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All  $3N$  degrees of  
freedom have  
symmetry  
relationships  
consistent with the

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linear molecule is characterized as possessing a bond angle of  $180^\circ$  with either a  $C_{\infty v}$  or  $D_{\infty h}$  symmetry point group. Each point group has a character table that represents all

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of the possible  
symmetry of that  
molecule.

Specifically for  
linear molecules,  
the two character  
tables are shown  
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depending on the relationship between the molecule and observed IR absorption bands. Every molecule is corresponding to one particular symmetry point group.

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