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Module 1: FUNDAMENTALS OF SPECTROSCOPY It's amazing how much we can learn about molecules and materials by shining light on them! In spectroscopy, we use light to determine a tremendous range of molecular properties, including electronic, vibrational, rotational, and electron and nuclear spin states and energies.

## **Module 1: Fundamentals of Spectroscopy**

Spectroscopy is the study of the interaction of light (electromagnetic radiation) with matter. Electromagnetic radiation covers a wide range of frequencies from gamma rays to radio frequencies. Depending on the frequency of radiation interacting with the matter, one can have different forms of spectroscopy.

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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 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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This literally means that in spectroscopy, you do not look directly at the molecule - the matter - but what you see is its 'ghost' or image. To begin our study, we must, therefore, first discuss the nature of electromagnetic radiation and matter, and then the interaction between the two.

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