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spectroscopy is the study of the interaction of light and matter many types of spectroscopy rely on the ability of atoms and molecules to absorb or emit electromagnetic em radiation the absorption or emission of different forms of em radiation is related to different types of transitions

## **module 1 fundamentals of spectroscopy mit opencourseware**

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purpose this module is designed to introduce the basic concepts of spectroscopy and to provide a survey of several of the most common types of spectroscopic measurement you will conduct the following measurements uv vis ultraviolet visible spectroscopy of electronic states fluorescence spectroscopy of electronic states

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introduction spectroscopy is a branch of science concerned with the spectra of electromagnetic radiation as a function of its wavelength or frequency measured by spectrographic equipment and other techniques in order to obtain information concerning the structure and properties of matter

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explain the principles of a range of spectroscopic techniques including infrared ir ultraviolet visible uv vis and nuclear magnetic resonance nmr each technique has clear explanations and descriptions supported by animations many of which are interactive to aid your learning

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spectroscopy study of the absorption and emission of light and other radiation by matter as related to the dependence of these processes on the wavelength of the radiation spectroscopic analysis has been crucial in the development of the most fundamental theories in physics

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spectroscopy is a general methodology that can be adapted in many ways to extract the information you need energies of electronic vibrational rotational states structure and symmetry of molecules dynamic information goals understand how light interacts with matter and how you can use this to quantitatively understand your sample

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introduction spectroscopy is the study of the interaction between matter and electromagnetic radiation the types of electromagnetic radiation are often divided into the following broad categories from short to long wavelengths gamma radiation x ray radiation ultraviolet radiation visible radiation infrared radiation microwave

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learn how spectroscopy can help scientists understand the nature and properties of objects that emit light such as stars black holes and galaxies explore different types of spectra mechanisms of emission and examples of line and continuum spectra

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spectroscopy 5 35 module 1 introduction to spectroscopy spectroscopy permits measurement of a tremendous amount of information often in a very simple way module consists of uv vis fluorescence ir and nmr spectroscopy experiments

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the course introduces the three key spectroscopic methods used by chemists and biochemists to analyse the molecular and electronic structure of atoms and molecules these are uv visible infra red ir and nuclear magnetic resonance nmr spectroscopies

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