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Classical Theory of Raman Effect

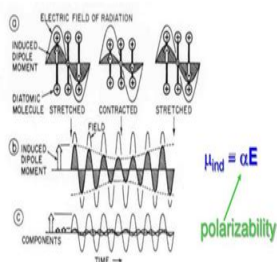


FIG. 1.31. Classical theory for the origin of the Raman effect. In (a) we see a diatomic molecule where "•" represents protons and "○" represents the center of gravity of the electrons. The electrons are displaced by the external field of the photon and an induced dipole moment is generated which changes when the bond length changes during the molecular vibration. The induced dipole moment is plotted in (b) as an amplitude modulated wave with steady amplitude components shown in (c) from which scattered radiation is generated.

Collthup et al., Introduction to Infrared and Raman Spectroscopy, 3rd ed., Academic Press, Boston: 1990

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Introduction To The Theory Of The Raman Effect