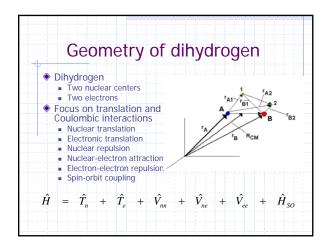
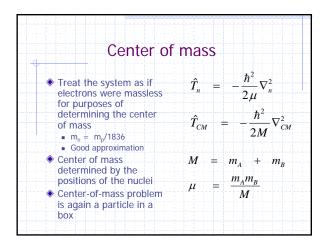
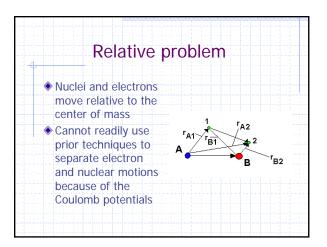
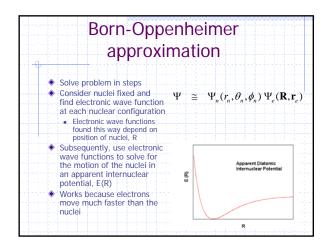
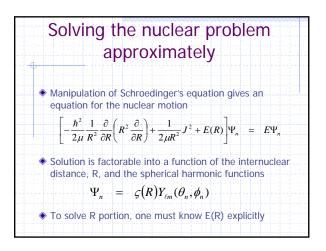
Physical (nemistr	У	
Lecture 22			
Diatomic Mole	cules		

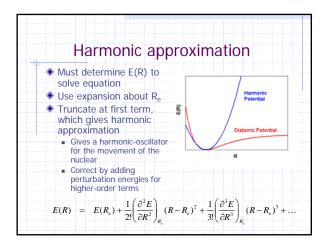


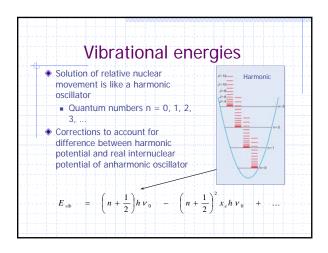


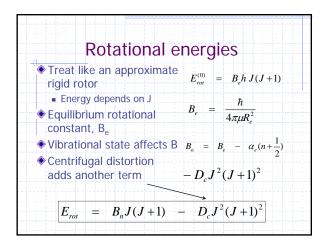


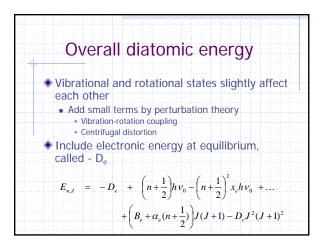


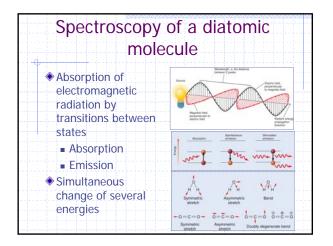


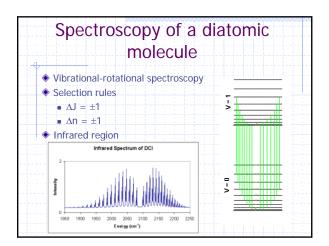












	Spectroscopy of a diatomic molecule
۲	Vibration-rotation spectroscopy in the infrared region
۲	Requires the molecule to have a dipole moment
۲	Most molecules in ground vibrational state at room conditions Vibrational transitions from the ground state only
	 At higher temperatures, transitions from higher- energy vibrational states – hot bands

