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given in cycles per second or $h\nu$ however numerical values will usually be quoted in megacycles or 10^6 cycles/sec the selection rule that $j_2 = j_1 \pm 1$ or $j_2 = j_1$ for dipole radiation of a diatomic molecule will be more rigorously demonstrated in the discussion of intensities later'

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June 3rd, 2020 - spectroscopy s p ?

k ? t r ? s k ? p i is the study of the interaction between matter and electromagnetic radiation via electron spectroscopy atomic spectroscopy etc historically spectroscopy originated through the study of visible light dispersed according to its wavelength by a prism later the concept was expanded greatly to include any interaction with radiative energy as a "*microwave spectroscopy*

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transitions $j = 2 \rightarrow 1$ and $1 \rightarrow 0$ were recorded

along with the constant hyperfine

structure at a resolution of 20 khz

herein the rotational spectra of BF_3 and CO

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pattern for the microwave field the shape of a Stark component of an absorption line has been calculated the position of the line center is exactly the same as for a uniform d.c. field the line broadening due to field inhomogeneity is about 1 per cent of the Stark splitting"microwave spectra an overview sciencedirect topics

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explain rotational microwave spectroscopy in detail extremely sorry for the mistake the microwave frequency should be 3×10^{10} to 3×10^{12} not 14 '

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March 31st, 2020 - the generalized fractional maxwell model has four independent parameters ω_0 is decided by capacitances c_1 and c_2 and it reflects the dielectric constant at the low frequencies ω_0 denotes the frequency where ϵ'' decreases rapidly and the loss peek of ϵ'' appears the dielectric constant the

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