rared Spectroscopy kuiliple: FTIR reties on the fact that most troleenles absorb light in the refrared region of the electromagnetic spectrum This absorbtion corresponds specifically to the bonds present in the molecule. Molecules foud to absorb these specific frequencies of light suce they correspond To the frequency of the orbitation of bonds In the molecu absorption spectum from the bond natural Vibration preguences indicetes the presence of various chemical bonds and functional groups

BLOCK DIAGRAM FOR FITE: IK SOURCE Date: | | BEAM SPLMER MOVINGE MIRRON SAMPLE FIXED MIRROR The IR reidiction is pessed through a sample Some of the lufsared radiation is absorbed by the sample and some of it is transmitted of passed through. The resulting spectrum represents the molecular absorbtion and transmission creating a molecular fungerfiend of the sample. By FIIR consists of Infrared Source, Beam splitter which consists of inter interoferometer (reales au interference patter) Sample compartment, Detector. The radiation which passes the sample through the Titerferometer and reaches the detector where the signal is transferred to a computer in which fourier transform is derried out.

