Organic Chemistry Review First Vnit: Valence bond Theory's covalent bond famed from overlop of atomic orbitals more simplistic than the mot in its treatment of bonds bonds treated as waves - 2 waves approaching can interact in 2 ways & destructive = canceling producin bond is sixtly than sharing of election density before escape at constructive interference example Ha - forms interference sigma bond - has circular symmetry was respect with respect to bond axis all single bonds are o (sigma) bonds -specifically pure sigm single bonds VBT is cit times in adequate - molecular bond theory works for more complicated cases MOT MOT also describes bonds in terms of construeive interference - but also uses mathematics mathematic method is linear combination of atomic orbitals in theory - atomic orbitals are combined to form a molecular orbitals atomic orbitals are associated with only 1/4 1 atom molecular orbital associated with entere molecule motivate is considered of I entity made up of several electron clouds 4) molecular orbitals filled with elections in a particular order