Departure function: - measure of deviation from ideal gas behavior. for example: - if a real gas is making 9 change from state 1 to 29 We are interested in h2-h20 or h,-h10 or (h2-h20)-(h1-h10) where 'o' signifier ideal gas behavior. coe will statt with the following relation, (3h) = U-T(V) (derive it) tiere is strategy: - B (State 2) A(State1)

A(State1)

A choosing an demative Path.A-B  $h_2 - h_1 = \int dh + \int dh + \int dh$   $P_1 = \int dh + \int dh$   $P_2 = \int dh$ ideal gas behavior

the Cpo dT => h\_E - h\_E = Cpod(T\_2-T\_1)

the cpo dT => h\_go - h\_10 = Cpo(T\_2-T\_1)