Flow of gas through mionochannel

Kn > 10 can be normally obtained in a channel of tem characteristic Continuen flow with no slip boundary continer. " Sup " " " Transition flow (Burnett equation) free molecular flow 1 at 1 bar = 70 nm Knudson No. Km = A Kn K 10-2 10 2< Km5 10 101 < Km < 10 ₹ V 10

34p boundary condition

the velocity and temperature of wall, she knudsen layer is insignificant, and the continuum solution for bulk from can be extrapolated to the surficient, and the continuum solution for bulk from can be extrapolated to the surficient. (*) when kn is small (< 0.1), the continuent overage velocity and temperature of gas malecules near the used is continuous and equal to (*) The sublayer at the interfere, few mean free paths thick is refused

- Will +) die = Stip relocity under 18 order stiff

- Stip relocity under 18 order stiffer

- Stip relocity under (Tryller series express)

- Hudy +) die | - Stip relocity under series expression order terminal improvements to specific order terminal improvements order te (*) when kn is longe, collision frequency is low, equilibrosum bebilished. In that care, the wall and near-wall connet be established. In that care, The tengential relocity, one mean free path away from the wall

Tangents at momentum accommodation coefficient for an isother make wall after collision =) A reduction in velocity 2-0v 1 24 A ship larget by can be defined such that the webseity genteractions between gas and solid maleenter. the wall = 0 C = tengential momentum of incoming molecules on reflected " I havy - coly - WW + Ls day 2 - 1 S Additional considerations in stip flow For more about gases Ugas - Uway = 2-0, JUM. By Two is the wall temperature

