- La) For ID slab as pictured above / defined above sweeping process is progressive following the direction of transport starting of left boundary. Calculate the first box and then swerp for word. Each box contributes to the process.
  - b) 10 stort at right side with M20 ean and start with the 20 start
  - C) On the most edge xin xi xin reflect the flux 470 to MCO first find YI+1/2 normally in 4>0 sweep then for 4>0 YI+1/2, in = 24m-4I-2n equal 400's YI-1/2 n= 24m-4I+1/2
    - then itecte back normally for M = 0 sveep d) During the sweep only the flux Moven of do need to be soved befreen iterations smae the ? 9in are built during the sceep

2) a) 
$$\psi_{a}(x^{1}) = \psi_{a}(x) \exp\left[\frac{-2\epsilon(x^{1}-x)}{\mu_{a}}\right] + \chi \cos h o t \mu \frac{\partial h}{\partial x} + \epsilon \psi_{a} = 0$$
b)  $\psi_{i+\mu_{a}} = e^{2h} \psi_{i+\mu_{a}} \quad \text{where } h = \frac{\epsilon_{a}}{2\mu_{a}} = \frac{\lambda_{i+\mu_{a}}}{\lambda_{i+\mu_{a}}} = \frac{\lambda_{i+\mu_{a}}}{\lambda_{i+\mu_{a}}} + \frac{\lambda_{i+\mu_{a}}}{\lambda_{i+\mu_{a}}} = \frac{\lambda_{i+\mu_{a}}}{\lambda_{i+\mu_{a}}} + \frac{\lambda_{i+\mu_{a}}}{\lambda_{i+\mu_{a}}} = \frac{\lambda_{i+\mu_{a}}}{\lambda_{i+\mu_{a}}} + \frac{\lambda_{i+\mu_{a}}}{\lambda_{i+\mu_{a}}} = \frac{\lambda_{i+\mu_{a}}}{\lambda_{i+\mu_{a}}} + \frac{\lambda_{i+\mu_{a}}$ 

() 
$$\alpha = 0$$

$$\int_{\Delta i}^{h} (V_{i+y_{k}} - V_{i-y_{k}}) + \Sigma_{e} V = 0 \quad \text{for } / \lambda 0$$

$$V_{i} = \frac{1}{2} (V_{i+y_{k}} + V_{i-y_{k}}) - \int_{\Delta i}^{h} (V_{i+y_{k}} - V_{i-y_{k}}) + \frac{\Sigma_{e}}{2} (V_{i+y_{k}} + V_{i-y_{k}}) = 0$$

$$V_{i+y_{k}} = (I - h) V_{i-y_{k}}$$

$$V_{i+y_{k}} = (I - h) V_{i-y_{k}}$$

these are the same after expansion

(e) To ensure possible flux 
$$1>h=\frac{5d}{2|M|}$$
  
also in general mesh size decreases as Sworder increases  
for const  $\Xi_{E}$   $\hat{\beta}$  shall const  $M_{n}$   $\frac{2|M_{n}|}{\Xi_{E}} > \Delta_{i}$ 

for -lost no scaffery for themal no fistion  $g(p) = \frac{M_a}{h_i} \left( \psi_{a,i+h}^{l} - \psi_{a,i+h}^{l} \right) + \sum_{i} \psi_{a,i}^{l} = \frac{\chi}{2} \sum_{g=1}^{G} V_{g} \sum_{f=1}^{g} \psi_{f}^{g} + \frac{1}{2} Q_{i}^{g}$ 

grp2 Ma (42 - Yain) + Ein Wai = 2 & V. Erip + 2 Q2

903 = ( \( \psi\_{\alpha, i-k}^3 - \psi\_{\alpha, i-k}^3 \) = \( \xi\_{\alpha, i-k}^3 \) = \( \xi\_{\alpha, i-k}^3 \) = \( \xi\_{\alpha, i-k}^3 \) \( \xi\_{\alpha, i-k}^3 \) \( \xi\_{\alpha, i-k}^3 \) = \( \xi\_{\alpha, i-k}^3 \) \( \

9rp 4 Ma ( Yair - Yo, i-x) + Ex, iva, i = 2 TE us Es; (a' +a) Ya', i + & Q'4

grp 5  $\frac{M_{\bullet}}{h_{i}} \left( \psi_{\alpha, i+k}^{s} - \psi_{\alpha, i+k}^{s} \right) + \sum_{k, i}^{s} \psi_{\alpha, i}^{s} = 2 + \sum_{k}^{s} \psi_{\alpha} \xi \sum_{k}^{s} \left( \alpha' + \alpha \right) \psi_{\alpha, i}^{s'} + \frac{1}{2} Q_{i}^{s}$