







 $-\frac{\alpha}{2\lambda}\left(g_{i+1}^{n}-g_{i+1}^{n}\right)$ Bil L NJ ( > non-physical Xi, X; Xi, numerical diman Qi(t) Qi(t) Augundance Augundance Augundance Augundance Augundance Comant, Friedrichs, Lewry For a numerical scheme to converge to the solution it must be consistent & stable Stability. durnam of numerical dependence C duman of physical dependence CFL andthin D=CFL number ≤ L  $\left(\frac{\nu - \frac{\mu k}{h}}{2t + f(s)_{x} = 0}\right)$   $2t + \frac{f(s)_{x} = 0}{2t + \frac{\mu}{2t}}$  $v = \frac{ust}{\omega x}$ Upwind scheme

