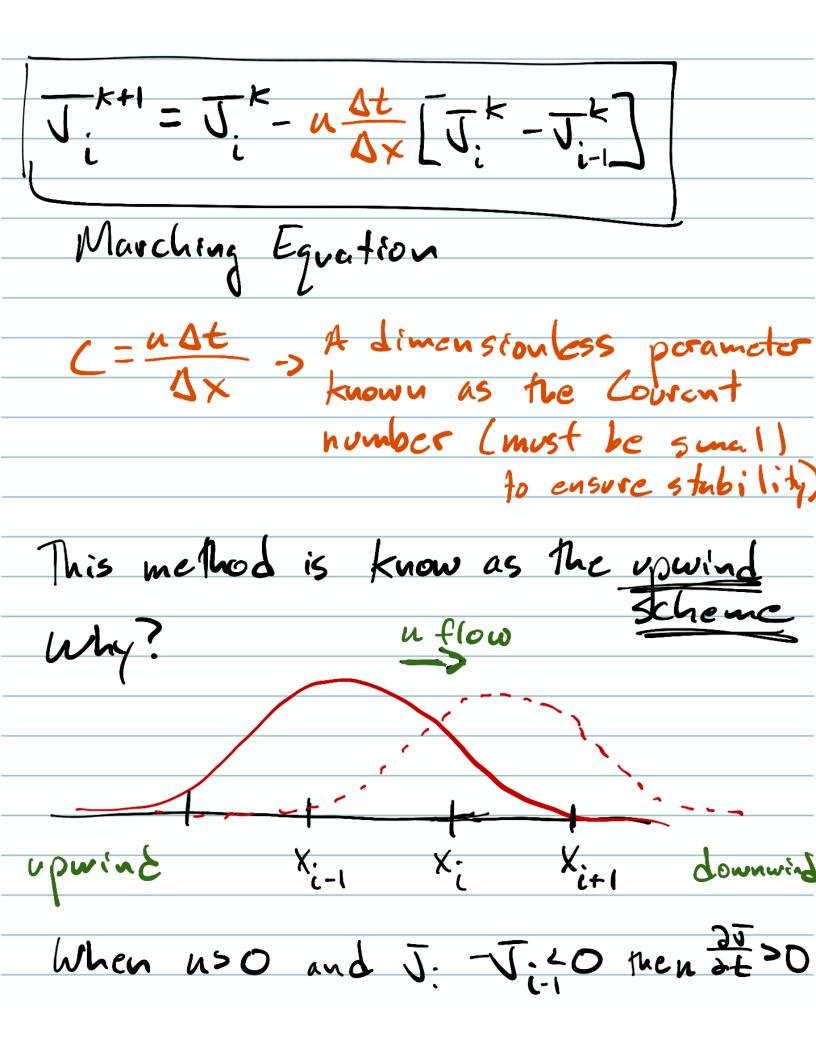
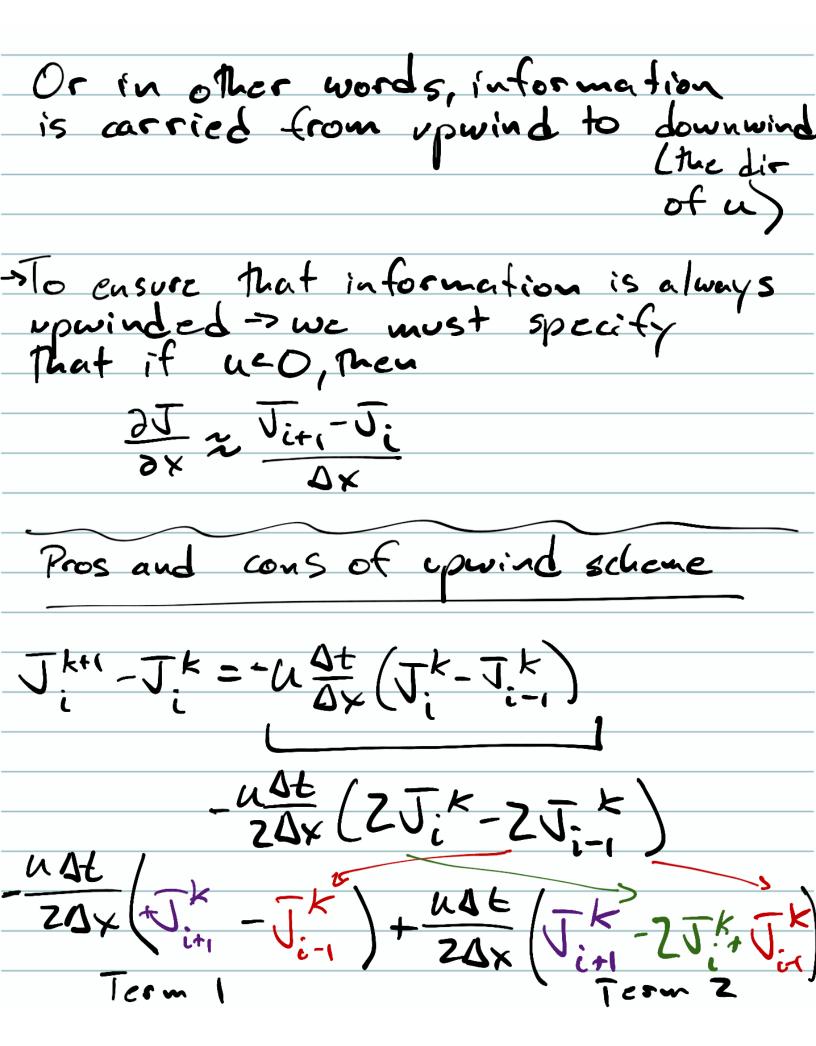


The strategy:	discretize each derivative anding on type of variable according of method
seperately dependent	accuracy of type of variable
Simplest, discr	forward Eulo
USING	701WG & EUB
Time	Space
7J J. K+1	
3J = J; *1-1	$\frac{J_i^k}{\partial x} = \frac{J_i^k}{\Delta x} - \frac{J_{i-1}^k}{\Delta x}$
256	
Puttine these	tocother the discretized
advection equ	together, the discretized
TKILTK	TK_TK
Vi =	$-u \frac{J_i^k - J_i^k}{\Delta x} + S(x_i, t_k)$
7 +	Dx C(1-k)
V To Alianda	Mars to the make
Turponn -> m	his is the only rewrite to solve
for this	





Term Term Centered difference approx for 25 Diffusion 3×5 7×5 The prominence of This diffusion term in the upwind scheme can be a problem-leading to: t, rot t, root Dissipation of _> concentrations of T time, x Solution: he careful with picking 12x 1st (=ult -> when C>1 -> method unstaye when C=1-> method stuble
+ non-diffisive